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TI    PROMOTER-BASED ISOLATION, PURIFICATION, EXPANSION, AND TRANSPLANTATION OF
      NEURONAL PROGENITOR CELLS, OLIGODENDROCYTE PROGENITOR CELLS, OR NEURAL
      STEM CELLS FROM A POPULATION OF EMBRYONIC STEM CELLS
IN    Goldman Steven A; Roy Neeta Singh
PA    Unassigned Or Assigned To Individual (68000)
PI    US 2004029269   A1  20040212
AI    US 2003-430822      20030506
PRAI  US 2002-378802P     20020507 (Provisional)
FI    US 2004029269       20040212
DT    Utility; Patent Application - First Publication
FS    CHEMICAL
      APPLICATION
CLMN  41
GI     17 Figure(s).
     FIGS. 1A-B show   ***nestin***  -expressing cells arise at the
      differentiating margins of human embryonic stem cells. These cells are
      maintained in Knockout DMEM (Gibco) supplemented with 20% serum and
      express GFP within 3 days of infection by adenoviral ("Ad")E/
        ***Nestin***   EGFP.
     FIGS. 2A-B show E/  ***nestin***  :EGFP recognizes only a minority of
      human embryonic stem cells 9 days after passage and 7 days postAdE/
        ***nestin***  :EGFP infection. The human embryonic stem cells are induced
      to form embryonic bodies in Knockout DMEM (Gibco) supplemented with 20%
      PBS and continue to express GFP 7 days after infection by AdE/
        ***Nestin***   EGFP.
     FIGS. 3A-B show that FACS selects a distinct population of E/
        ***nestin***  -driven GFP+. Flow cytometric analysis of ADE/
        ***Nestin***  :EGFP infected human embryonic stem cells showed that the
      EGFP expressing population constituted 5.67+-1.8% (mean+-SD, n=4 samples)
      of the total cell population.
     FIGS. 4A-B show FACS results which suggest several size ranges of E/
        ***nestin***  -driven GFP+ cells. Profiles of forward scatter ("FSC") v.
      fluorescence intensity ("FL1") reveal the presence of two populations of
        ***nestin***  + progenitor cells.
     FIGS. 5A-B show AdE/  ***Nestin***  :EGFP-induced human embryonic stem
      cells can be extracted to near homogeneity by FACS. Following 5 days
      after, FACS, in knock out-DMEM supplemented with 20% FBS and RA, the
      sorted cells start to form spheres and continue to express   ***nestin***
      -driven GFP.
     FIGS. 6A-B show E/  ***nestin***  :EGFP-sorted-human embryonic stem cells
      differentiate largely as neurons and glia with FIG. 6A showing the
      results 6 days after treatment with brain derived neurotrophic factor
      ("BDNF")/neurotrophin-3 ("NT-3") and FIG. 6B showing beta III-tubulin
      treatment. Following differentiation in Neurobasal medium supplemented
      with B27 (Gibco), NT3, and BDNF and on polyornithine/fibronectin coated
      plates for 5 days, beta III-tubulin expression was observed by most of
      the   ***nestin***  -sorted cells, indicating their neuronal
      differentiation and maturation.
     FIG. 7 shows highly enriched populations of neurons can be derived from
      human embryonic stem cells sorted by FACS on the basis of E/
        ***nestin***  -driven GFP where the beta III-tubulin promoter is used.
     FIGS. 8A-B show adenoviral with T alpha 1 tubulin promoter ("AdT alpha
      "):human embryonic stem cells recognize neuronal progenitor cells within
      mixed cultures of human embryonic stem cells.
     FIGS. 9A-B show AdT alpha :human embryonic stem cells recognize a
      population of neuronally-differentiating human embryonic stem cells.
      Human embryonic stem cells maintained in KO-DMEM supplemented with 20%
      KO-serum exhibited GFP expression by neuronal progenitor cells within 3
      days of infection with AdP/T alpha 1:hGFP
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from a population of embryonic stem cells.
FIGS. 11A-D demonstrate that lentivirus ("Lenti")-E/ ***Nestin*** :EGFP expression can be seen at the differentiating margins and centers of hES colonies. hES cells maintained in Knockout DMEM/ Knockout replacement serum (Gibco) were infected with Lenti-E/ ***Nestin*** :EGFP virus. EGFP expression was observed 3-4 days after infection. Typically EGFP expression was observed at the edges (FIGS. 11A and B) or center (FIGS. 11C and D) of the hES colonies.
FIGS. 12A-D show that EGFP expression by Lenti-E/ ***Nestin*** :EGFP infected hES cells continues through several generations. LentiE/ ***Nestin*** :EGFP-positive cells maintained their EGFP expression through several generations (at passage 2 in FIGS. 12A-D). The EGFP expression profile was replicated in every passage, with EGFP expression being limited to the differentiating edges (FIGS. 12A and B) and centers (FIGS. 12C and D).
FIGS. 13A-D demonstrate that EGFP expression by Lenti-E/ ***Nestin*** :EGFP infected hES cells continues through several generations without loss in intensity of EGFP expression. LentiE/ ***Nestin*** :EGFP-positive cells continue to maintain their EGFP expression intensity and expression profiles (FIGS. 13A and C, seen at passage three).
FIGS. 14A-B show that Lenti-E/ ***Nestin*** :EGFP expressing cells constitute a large proportion of the hES population. Flow cytometeric analysis showed that an average of 12.5% (FIGS. 14A and B) of the Lenti-E/ ***Nestin*** :EGFP infected hES cells expressed EGFP.
FIGS. 15A-B show that FACS purified Lenti-E/ ***Nestin*** :EGFPexpressing cells on induction of differentiation gave rise to neurons and glia. When sorted cells are cultured sequentially in the presence of DMEM/F12 supplemented with B-27, basic fibroblast growth factor ("bFGF"), epidermal growth factor (" ***EGF*** "), platelet derived growth factor ("PDGF"), and insulinlike growth factor ("IGF") followed by BDNF/NT3, majority of the cells differentiated as 1III-tubulin expressing neurons (FIG. 15A) and some as ***GFAP*** (FIG. 15A) expressing glia.
FIGS. 16A-F demonstrate that Lenti-Ta1:hGFP recognizes neuronal progenitors in mixed hES cell cultures. hES cell cultures infected with Lenti-T alpha 1:hGFP virus start expressing GFP 34 days post-infection. GFP expression is limited to the nucleus (FIGS. 16A, C and E) and observed in cells either in the differentiating center of the hES colonies (FIGS. 16A and E) or in clusters of cells undergoing spontaneous differentiation (FIGS. 16C and D, arrow). From these differentiating clusters, neurons can be seen migrating out (FIG. 16C and D, arrow head).
FIGS. 17A-B show that Lenti-T alpha 1:hGFP is expressed by a significant proportion of the hES population. Flow cytometery analysis of Lenti-T alpha 1:hGFP infected cells indicate that around 7.32% of the total hES cells express GFP driven by the T alpha 1 promoter.

L5 ANSWER 2 OF 269 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 2
AN 04006348 IFIPAT;IFIUDB;IFICDB
TI ENGRAFTABLE HUMAN NEURAL STEM CELLS
IN Kim Seung U (CA); Snyder Evan Y; Wolfe John H
PA Children's Medical Center Corp The
Pennsylvania, University of
(10709, 64664)
PI US 6680198 B1 20040120
AI US 1999-398299 19990920
RLI US 1998-133873 19980814 CONTINUATION 5958767
FI US 6680198 20040120
US 5958767
DT Utility; Granted Patent - Utility, no Pre-Grant Publication
FS CHEMICAL
GRANTED
CLMN 2
GI 9 Drawing Sheet(s), 53 Figure(s).
FIGS. 1A and 1B: The monoclonal nature of each putative human neural stem cell (NSC) clone is confirmed by demonstrating a single retroviral insertion site within the genomes of each. (A) Genomic DNA from the putative human NSC clone H1 (which was propagated in bFGF and subsequently transduced with a retrovirus encoding lacZ and neo) was digested with Hind III (which cuts only once within the provirus) and incubated with a radiolabeled nucleotide probe complementary to neo. Monoclonal derivation is confirmed by the presence of a single integrated retrovirus with an integration site common to all cells in the colony indicating that they were derived from a single infected "parent" cell (arrow). As a positive control, the murine NSC clone C17.2 which contains 2 integrated retroviruses encoding neo (one from an integrated

retrovirus13,28 appropriately shows 2 bands (arrows). Specificity of the probe is demonstrated by the negative control, the human meduloblastoma cell line DaOY, which, having not been infected with a retrovirus, shows no neo sequences in its genome and hence no hybridization product (B) Genomic DNA from putative clones H9, H6, D10, and C2 (human NSC colonies propagated in bFGF and/or ***EGF*** and then subsequently infected with a retrovirus encoding the propagating gene vmyc) were digested with Bgl II or Bam HI (each of which cuts only once within the provirus) and then subjected to Southern analysis utilizing a probe complementary to the proviral vmyc. Single retroviral integration sites are appreciated in all colonies confirming the monoclonal nature of each putative clone. The murine NSC clone C17.2, which contains a single copy of vmyc13,28 and serves as a positive control, also has one band. As in (A), the negative control non-virally infected human DaOY cells, have no bands.

FIGS. 2A-2E: Characterization of human neural stem cells (NSCs) in vitro. (A) NSCs tend to grow as clusters in serum-free bFGFsupplemented medium. They differentiate spontaneously into neurofilament-immunoreactive neurons (B) or CNPaseimmunoreactive oligodendrocytes (C) when transferred to serumcontaining medium, or into ***GFAP*** -expressing astrocytes when cocultured with primary murine CNS cultures (and identified with a human-specific anti- ***GFAP*** antibody) as, for example in (D), illustrating a typical type-1 protoplasmic astrocyte. Hence, a single clone has the potential for generating cella of all neural lineages ("multipotency"). New immature, undifferentiated, vimentin-immunoreactive NSCs (E) are present in clones under all conditions, suggesting the ability of a clone to "self-renew" (i.e., produce new multipotent NSCs).

FIGS. 3A-3N: Human neural stem cells (NSCs) are capable of complementing a prototypical gene product deficiency (e.g., beta-hexosaminidase-A) in neural cells of multiple lineages in which the gene is mutated (e.g., brain cells from Tay-Sachs mice). As a proof of principle that human NSCs (like murine NSCs) are capable of cross-correcting a neurogenetic defect, neural cells from the brains of mice with the prototypical neurogenetic disorder Tay-Sachs disease, generated via targeted mutagenesis of the alpha-subunit of beta-hexosaminidase resulting in absence of hexosaminidase-A39, were exposed to secreted gene products from human NSCs to assess their ability to effect complementation of the defect. (A-C) Hexosaminidase activity as determined by NASBG histochemistry (Nomarski optics) . Functional hexosaminidase produces a red-pink precipitate with an intensity proportional to the level of activity. (A) Tay-Sachs neural cells (arrows) not exposed to NSCs have no, or minimal, detectable hexosaminidase. (A small number of faintly pink NASBG+ cells are occasionally observed reflecting low residual hexosaminidase-B activity). In comparison, Tay-Sachs neural cells exposed to secretory products from murine NSCs (e. g., clone C17.2H) (B) or from human NSCs (C) now stain intensely red (wildtype intensity) suggesting that they have been cross-corrected, i.e., have internalized significant amounts of functionally active hexosaminidase from the NSCconditioned medium. (D-L) To help determine which neural cell types from the Tay-Sachs brain were cross-corrected, primary dissociated Tay-Sachs neural cells which had been co-cultured in a transwell system with human NSCs (as in (C)) were reacted both with a fluorescein-labeled antibody to the human alphasubunit of hexosaminidase (D-F) and with antibodies to neural cell type-specific antigens (visualized by a TR-tagged secondary antibody) (G-I, respectively). Photomicroscopy through a dual filter confirmed co-localization of the alphasubunit with the cell-type markers (J-L, respectively). A subset of these now alpha-subunit-positive corrected cells (D) were neurons, as indicated by their expression of the neuronal marker NeuN (G,J); a subset of the alpha-subunit+ cells (E) were glial, as illustrated by their co-expression of the glial marker ***GFAP*** (H,K); and a subset of the alpha-subunit+ cells (F) were immature, undifferentiated CNS precursors, as indicated by the presence of the intermediate filament ***nestin*** (I,L). (Untreated cells from a Tay-Sachs brain do not stain for the alpha-subunit). (M) Percentage of successfully rescued (i.e., NASBG+) primary Tay-Sachs neural cells as seen in (A-C). The number of "untreated" Tay-Sachs alpha-subunit-null cells (-/-) (i.e., unexposed to NSCs) that were NASBG+ (1st histogram) was quite low. (That the percentage is not 0 reflects some low residual hexosaminidase-B activity in mutant cells that is sometimes sufficient enough in some cells to produce a pale pink scoreable cell). In contrast, among Tay-Sachs neural cells "treated" with secretory products from murine NSCs (C17.2) (2nd histogram), murine NSCs engineered to over-express hexosaminidase (C17.2H) (3rd histogram), or human NSCs (4th histogram), the percentage of cross-corrected, hexosaminidasecontaining cells was significantly increased (p less-than 0.01). The NSCs did not significantly differ from each other in their ability to effect this

positive control and were nearly 100% NASBG+, histogram not presented). (N) Complementation of gene product deficiency results in rescue of a pathologic phenotype in mutated neural cells, as illustrated by percentage of Tay-Sachs CNS cells with diminished GM2 accumulation. Among Tay-Sachs cells not exposed to NSCs (1st histogram), the percentage of GM2+ cells was large reflecting their pathologically high level of storage and consistent with a lack of enzyme as per (M). In contrast, the percentage of cross-corrected Tay-Sachs cells without detectable GM2 storage following exposure to murine (2nd and 3rd histograms, as in (M)) or human NSCs (4th histogram) was significantly lower than in the mutant (p less-than 0.01), approaching that in wildtype (+/ +) mouse brain (5th histogram). Again, the NSCs did not significantly differ from each other in their ability to effect this rescue.

FIGS. 4A-4E: Developmentally-appropriate migration of human neural stem cells (NSCs) following engraftment into the subventricular germinal zone (SVZ) of newborn mice. (A,B) Donorderived human NSCs integrate and intermingle nondisruptively with endogenous progenitors within the host SVZ by 24 hours after transplantation. A representative donor-derived cell with a typical short process highlighted in (A), has interspersed with densely packed endogenous SVZ cells, visualize by DAPI (blue) in the overlapping image in (B). (C) Two weeks following transplantation, many donor-derived cells (red) have migrated extensively within the subcortical white matter (arrow) and corpus callosum (c) from their site of implantation in the lateral ventricles (LV), as visualized in this coronal section. A representative migrating cell within the subcortical white matter (arrow), visualized at higher magnification in the boxed insert, is noted to have a leading process characteristic of migrating precursor cells. (D,E) As seen in this representative cresyl violet-counterstained parasagittal section, other donorderived cells migrated from their integration site in the anterior SVZ to enter the rostral migratory stream ("RMS") leading to the olfactory bulb ("OB"). Representative BrdUimmunoperoxidase-positive (brown) donor-derived cells (arrow) within the RMS, are seen at low power in (D) and visualized at higher magnification in (E), intermixed with migrating host cells. Further characterization and visualization of these donor human NSC-derived cells in their final location in the OB are presented in FIG. 5. Scale Bars: 100 mu m.

FIGS. 5A-5Q: Differentiation and disseminated foreign gene (beta-galactosidase) expression of human neural stem cell (NSC) clones in vivo following engraftment into the SVZ of developing, neonatal mice. (A-C) Stably engrafted, beta-galactosidase (beta gal)-expressing, donor-derived cells from representative human NSC clone H1, detected with Xgal histochemistry (A,B) and with anti-beta gal ICC (C). The donor-derived cells pictured in the series of photomicrographs in (A) are within the periventricular and subcortical white matter regions (as per FIG. 4). (The top and bottom panels-low power on the left, corresponding high power on the right-are from representative semi-adjacent regions within a single recipient, suggesting a significant distribution of cells; arrows indicate the lateral ventricles). Furthermore, as illustrated in (B,C) by representative high power photomicrographs through the olfactory bulb (OB) (located as in FIG. 4D), donor-derived cells from this clone have not only migrated extensively to this developmentally-appropriate site, but continue to express beta gal in this distant location (i.e., in a disseminated fashion in vivo). The normal fate of a subpopulation of SVZderived progenitors that have migrated to the OB at this developmental stage is to become neuronal. In (D-G), donorderived neurons in the mature OB, derived from BrdU-labeled NSCs (representative clone H6) implanted into the SVZ at birth, are identified by both their immunoreactivity to a humanspecific NF antibody (D) as well as their expression of the mature neuronal marker, NeuN (E-G); under confocal microscopy, a BrdU+ (hence, donor-derived) cell (arrow in (E), fluorescein) is NeuN+ (arrow in (F), Texas Red) appreciated best with a dual filter (arrow in (G)). Adjacent to this representative donorderived BrdU+/NeuN+ neuron (arrow), are 2 host OB neurons (BrdU/NeuN+ in (G)) which share a similar size, morphology, and location with the donor-derived cell (arrow in F). (H,I) High power view of a representative donor-derived (clone H6) oligodendrocyte (arrow), appropriately in the adult subcortical white matter (as per FIG. 4C) following neonatal intraventricular implantation, double-labeled with an antibody to the oligodendrocyte-specific protein CNPase (H) and BrdU (I). Characteristic cytoplasmic processes extending from the soma are noted (arrowhead in (H)). (The morphology of the CNPase+ cell has been somewhat damaged by the HCl pre-treatment required for BrdU double-labeling). (J) Mature donor-derived astrocytes (clone H6) in the adult subcortical white matter (arrow) (as per FIG. 4C) and striatum following neonatal

GFAP antibody. The inset better illustrates at higher magnification the characteristic mature astrocytic morphology of a representative human- ***GFAP*** + cell. (K-Q) Expression of vmyc is downregulated within 48 hours following engraftment. (K), (M) , and (O) are DAPI-based nuclear stains of the adjacent panels (L), (N), and (P, Q), respectively. Representative human NSC clone H6 was generated (as was the well-characterized murine NSC clone C17.2) with the propagating gene vmyc. vmyc immunoreactivity in H6-derived cells (red) in the SVZ (arrows) at 24 hours following engraftment ((L) and at higher power in (N)), is persistently absent (P) in integrated H6-derived cells (visualized by BrdU labeling in (Q) (shown here 3 weeks following transplantation, but representative of any point 24 hours after engraftment). Scale Bars: (A), (K) and applies to (L): 100 mu m; (D), (E) and applies to (F,G), (H) and applies to (I), (J), (M) and applies to (N): 10 mu m; (O) and applies to (P,Q): 50 mu m

FIGS. 6A-6J: Neuronal replacement by human neural stem cells (NSCs) following transplantation into the cerebellum of the granule neuron-deficient meander tail (mea) mouse model of neurodegeneration. (A-G) BrdU-intercalated, donor-derived cells (from representative clone H6) identified in the mature cerebellum by anti-BrdU immunoperoxidase cytochemistry (brown nuclei) following implantation into the neonatal mea external germinal layer (EGL). (The EGL, on the cerebellar surface, disappears as the internal granule layer (IGL) emerges to become the deepest cerebellar cortical layer at the end of organogenesis13) (A) Clone H6-derived cells are present in the IGL ("igl"; arrowheads) of all lobes of the mature cerebellum in this parasagittal section. (Granule neurons are diminished throughout the cerebellum with some prominence in the anterior lobe). (B) Higher magnification of the representative posterior cerebellar lobe indicated by arrowhead "b" in (A), demonstrating the large number of donor-derived cells present within the recipient IGL. (C-G) Increasing magnifications of donor-derived cells (brown nuclei) within the IGL of a mea anterior cerebellar lobe. (Different animal from that in (A,B).) (G) Normarski optics bring out the similarity in size and morphology of the few residual host, BrdU-negative cerebellar granule neurons (arrowheads) and a BrdU+, donor-derived neuron (arrow), which is representative of those seen in all engrafted lobes of all animals.) (H,I) Confirmation of the neuronal differentiation of a subpopulation of the donor-derived, BrdU+ cells from (A-G) is illustrated by co-labeling with anti-BrdU (green in H) and the mature neuronal marker NeuN (red in I) (indicated with corresponding arrows). (Some adjacent, donorderived cells are non-neuronal as indicated by their BrdU+ (arrowhead in (H)) but NeuN-phenotype (also illustrating the specificity of the immunostaining). (J) Cells within the IGL are confirmed to be human donor-derived cells by FISH with a human-specific probe (red) identifying human chromosomal centromeres. Scale Bars: (A), (B): 100 mu m; (F), (G), (J): 10 mu m!

L5 ANSWER 3 OF 269 USPATFULL on STN
AN 2004:44604 USPATFULL
TI Multipotent neural stemcells from peripheral tissues and uses thereof
IN Toma, Jean, Toronto Ontario, CANADA
Akhavan, Mahnaz, Toronto Ontario, CANADA
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Golster, Andrew, Saskatoon Sakatchewan, CANADA
PI US 2004033597 A1 20040219
AI US 2003-181508 A1 20030401 (10)
WO 2001-CA47 20010124
PRAI KR 1999-34362 19990829
DT Utility
FS APPLICATION
LN.CNT 1376
INCL INCLM: 435/368.000
INCLS: 435/371.000
NCL NCLM: 435/368.000
NCLS: 435/371.000
IC [7]
ICM: C12N005-08

L5 ANSWER 4 OF 269 USPATFULL on STN
AN 2004:18785 USPATFULL
TI Molecules for diagnostics and therapeutics
IN Hodgson, David M., Ann Arbor, MI, UNITED STATES
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PA Incyte Corporation, Palo Alto, CA, UNITED STATES (U.S. corporation)
PI US 2004014087 A1 20040122
AI US 2003-378029 A1 20030228 (10)
RLI Continuation-in-part of Ser. No. US 2001-980285, filed on 30 Nov 2001, PENDING A 371 of International Ser. No. WO 2000-US15404, filed on 31 May 2000, PENDING

PRAI
US 1999-147500P 19990805 (60)
US 1999-147542P 19990805 (60)
US 1999-147541P 19990805 (60)
US 1999-147824P 19990805 (60)
US 1999-147547P 19990805 (60)
US 1999-147530P 19990805 (60)
US 1999-147536P 19990805 (60)
US 1999-147520P 19990805 (60)
US 1999-147527P 19990805 (60)
US 1999-147549P 19990805 (60)
US 1999-147377P 19990804 (60)
US 1999-147436P 19990804 (60)
US 1999-137411P 19990603 (60)
US 1999-137396P 19990603 (60)
US 1999-137417P 19990603 (60)
US 1999-137337P 19990603 (60)
US 1999-137173P 19990602 (60)
US 1999-137114P 19990602 (60)
US 1999-137259P 19990602 (60)
US 1999-137113P 19990602 (60)
US 1999-137260P 19990602 (60)
US 1999-137258P 19990602 (60)
US 1999-137109P 19990602 (60)
US 1999-137161P 19990601 (60)

DT Utility
FS APPLICATION
LN.CNT 14819
INCL INCLM: 435/006.000
INCLS: 435/007.100; 435/069.100; 435/183.000; 435/320.100; 435/325.000; 530/388.260; 536/023.200; 800/008.000
NCL NCLM: 435/006.000
NCLS: 435/007.100; 435/069.100; 435/183.000; 435/320.100; 435/325.000; 530/388.260; 536/023.200; 800/008.000
IC [7]
ICM: C12Q001-68
ICS: G01N033-53; A01K067-00; C07H021-04; C12N009-00; C12P021-02; C12N005-06

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 269 USPATFULL on STN
AN 2004:13073 USPATFULL
TI Oligodendrocytes derived from human embryonic stem cells for remyelination and treatment of spinal cord injury
IN Keirstead, Hans S., Irvine, CA, UNITED STATES
Nistor, Gabriel I., Placentia, CA, UNITED STATES
PI US 2004009593 A1 20040115
AI US 2003-406817 A1 20030404 (10)
PRAI US 2002-395382P 20020711 (60)
DT Utility
FS APPLICATION
LN.CNT 1704
INCL INCLM: 435/368.000
NCL NCLM: 435/368.000
IC [7]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L5    ANSWER 6 OF 269  USPATFULL on STN
AN      2004:13072  USPATFULL
TI      Genetically-modified neural progenitors and uses thereof
IN      Sabate, Olivier, Paris, FRANCE
        Horellou, Philippe, Paris, FRANCE
        Buc-Caron, Marie-Helene, Paris, FRANCE
        Mallet, Jacques, Paris, FRANCE
PA      Rhone-Poulenc Rorer S.A. (non-U.S. corporation)
PI      US 2004009592       A1   20040115
AI      US 2002-305386      A1   20021127 (10)
RLI     Continuation of Ser. No. US 1997-810315, filed on 28 Feb 1997, ABANDONED
PRAI    US 1996-12635P      19960301 (60)
DT      Utility
FS      APPLICATION
LN.CNT 1050
INCL    INCLM: 435/368.000
NCL     NCLM:  435/368.000
IC      [7]
        ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 7 OF 269  USPATFULL on STN
AN      2004:7469  USPATFULL
TI      Low oxygen culturing of central nervous system progenitor cells
IN      Csete, Marie, Ann Arbor, MI, UNITED STATES
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        McKay, Ron, Bethesda, MD, UNITED STATES
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PA      California Institute of Technology (U.S. corporation)
        National Institutes of Health (U.S. corporation)
PI      US 2004005704       A1   20040108
AI      US 2003-462896      A1   20030613 (10)
RLI     Division of Ser. No. US 1999-425462, filed on 22 Oct 1999, GRANTED, Pat.
        No. US 6610540 Continuation-in-part of Ser. No. US 1998-195569, filed on
        18 Nov 1998, GRANTED, Pat. No. US 6184035
DT      Utility
FS      APPLICATION
LN.CNT 2349
INCL    INCLM: 435/368.000
NCL     NCLM:  435/368.000
IC      [7]
        ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 8 OF 269  USPATFULL on STN
AN      2004:7427  USPATFULL
TI      Potential growth factors from the human tumour cell line ht 1080
IN      Minger, Stephen L., London, UNITED KINGDOM
        Adams, Gregor, London, UNITED KINGDOM
        Francis, Paul, London, UNITED KINGDOM
        Mcclure, Myra, London, UNITED KINGDOM
PI      US 2004005661       A1   20040108
AI      US 2003-344503      A1   20030708 (10)
        WO 2001-GB3523           20010806
PRAI    GB 2000-19705       20000810
DT      Utility
FS      APPLICATION
LN.CNT 1664
INCL    INCLM: 435/069.100
        INCLS: 435/226.000; 435/320.100; 435/366.000; 530/350.000; 536/023.200
NCL     NCLM:  435/069.100
        NCLS:  435/226.000; 435/320.100; 435/366.000; 530/350.000; 536/023.200
IC      [7]
        ICM: C12N009-64
        ICS: C07H021-04; C12N005-08; C07K014-47; C12P021-02
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 9 OF 269     MEDLINE on STN
AN    2004106946     IN-PROCESS
DN    PubMed ID: 14973190
TI    Mitotic and neurogenic effects of dehydroepiandrosterone (DHEA) on human
      neural stem cell cultures derived from the fetal cortex.
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SO Proceedings of the National Academy of Sciences of the United States of America, (2004 Mar 2) 101 (9) 3202-7.
Journal code: 7505876. ISSN: 0027-8424.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS IN-DATA-REVIEW; IN-PROCESS; NONINDEXED; Priority Journals
ED Entered STN: 20040304
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L5 ANSWER 10 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 3
AN 2004:111060 BIOSIS
DN PREV200400112924
TI Improved neural progenitor cell survival when cografted with chromaffin cells in the rat striatum.
AU Schumm, Michael A.; Castellanos, Daniel A.; Frydel, Beata R.; Sagen, Jacqueline [Reprint Author]
CS Miami Project to Cure Paralysis, University of Miami School of Medicine, 1095 NW 14th Terrace, Lois Pope Life Center, R-48, Miami, FL, 33136, USA
jsagen@miami.edu
SO Experimental Neurology, (January 2004) Vol. 185, No. 1, pp. 133-142. print.
CODEN: EXNEAC. ISSN: 0014-4886.
DT Article
LA English
ED Entered STN: 25 Feb 2004
Last Updated on STN: 25 Feb 2004

L5 ANSWER 11 OF 269 DISSABS COPYRIGHT (C) 2004 ProQuest Information and Learning Company; All Rights Reserved on STN
AN 2004:462 DISSABS Order Number: AAIC812759 (not available for sale by UMI)
TI Neuronal and glial differentiation of expanded neural stem and progenitor cells; in vitro and after transplantation
AU Eriksson, Cecilia Jenny [Ph.D.]
CS Lunds Universitet (Sweden) (0899)
SO Dissertation Abstracts International, (2003) Vol. 64, No. 3C, p. 613.
Order No.: AAIC812759 (not available for sale by UMI). 151 pages.
ISBN: 91-628-5666-9.
DT Dissertation
FS DAI
LA English
ED Entered STN: 20040107
Last Updated on STN: 20040107

L5 ANSWER 12 OF 269 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2003-23517 BIOTECHDS
TI Making a cDNA library, useful for treating neurodegenerative diseases, e.g. Parkinson's or Alzheimer's disease, comprises proliferating multipotent neural stem cells on an adherent substrate or in a suspension culture;
cell culture differentiation and proliferation and DNA library production for use in gene therapy and tissue engineering
AU WEISS S; REYNOLDS B; HAMMANG J P; BAETGE E E
PA WEISS S; REYNOLDS B; HAMMANG J P; BAETGE E E
PI US 2003109008 12 Jun 2003
AI US 2002-199830 19 Jul 2002
PRAI US 2002-199830 19 Jul 2002; US 1991-726812 8 Jul 1991
DT Patent
LA English
OS WPI: 2003-626207 [59]

L5 ANSWER 13 OF 269 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2003-22551 BIOTECHDS
TI Proliferating a culture of undifferentiated neural cells containing multipotent neural stem cells for treating neural disorders by culturing the cells in a culture medium containing a proliferation-inducing growth factor;
stem cell proliferation and differentiation for use in tissue engineering and gene therapy
AU WEISS S; REYNOLDS B; HAMMANG J P; BAETGE E E

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PI     US 2003095956 22 May 2003
AI     US 2002-199918 19 Jul 2002
PRAI   US 2002-199918 19 Jul 2002; US 1991-726812 8 Jul 1991
DT     Patent
LA     English
OS     WPI: 2003-606402 [57]

L5    ANSWER 14 OF 269  CAPLUS  COPYRIGHT 2004 ACS on STN DUPLICATE 6
AN    2003:174222  CAPLUS
DN    138:217803
TI    Microarrays for cell phenotyping and manipulation
IN    Brown, Patrick O.; Soen, Yoav; Keen, Erica
PA    USA
SO    U.S. Pat. Appl. Publ., 29 pp.
      CODEN: USXXCO
DT    Patent
LA    English
FAN.CNT 1
      PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
      ---------------   ----  --------      ---------------  --------
PI    US 2003044389      A1   20030306      US 2002-190425   20020702
      WO 2003058193      A2   20030717      WO 2002-US21162  20020702
          W:  AU, CA, JP
          RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT,
              LU, MC, NL, PT, SE, SK, TR
PRAI US 2001-303109P    P    20010702

L5    ANSWER 15 OF 269  IFIPAT  COPYRIGHT 2004 IFI on STN DUPLICATE 7
AN     10481730  IFIPAT;IFIUDB;IFICDB
TI     CANCER MODELS
IN     Bachoo Robert M; Depinho Ronald A
PA     Unassigned Or Assigned To Individual (68000)
PI     US 2003226159   A1  20031204
AI     US 2003-414460      20030415
PRAI   US 2002-373139P     20020416 (Provisional)
       US 2002-374791P     20020422 (Provisional)
FI     US 2003226159       20031204
DT     Utility; Patent Application - First Publication
FS     CHEMICAL
       APPLICATION
CLMN   29
GI      5 Figure(s).
      FIG. 1. Comparison of Ink4a/Arf+/+ and -/-neural stem cells (NSCs) and
       astrocytes. A. NSC morphology (upper panels) and   ***nestin***
       staining (inset upper panels) of neurospheres is similar for Ink4a/Arf+/+
       and -/-cultures. Astrocyte morphology (lower panels) and   ***GFAP***
       staining (inset lower panels) is also similar between Ink4a/Arf+/+ and
       -/-cultures. B. The total number of   ***EGF***   responsive NSCs
       isolated from Ink4a/Arf+/+ and -/-brains at E8.5 (n=4), E10.5 (n=9),
       E13.5 (n=38), E17.5 (n=12), P1 (n=16), and adult (6 weeks, n=4). C. The
       total number of neurospheres generated in defined media with   ***EGF***
       (20 ng/mL), without   ***EGF***  , and with PDGF (50 ng/mL). Data
       represent the means +/-the standard error of the mean (SEM) of the number
       of stem cells residing in the striatal germinal zone at E13.5 (n=32-38
       embryos per genotype). D. Differentiation of Ink4a/Arf-/-NSCs (
         ***nestin***   positive) into astrocytes (  ***GFAP***   positive, lower
       left) in response to serum and neurons (TUJ1, lower right) in response to
       BDNF.
      FIG. 2. p16INK4a and p19ARF cooperate to regulate the growth of astrocytes
       but not NSCs. Growth during serial passage by Ink4a/ Arf genotype for A.
       NSCs and B. astrocytes. C. Number of persistently growing astrocytes
       lines (i.e., "non-senesced"; Sharpless et al., Nature, 413:86-91 (2001))
       by passage and p16INK4a and p19ARF status. D. Western blot analysis of
       p16INK4a and p19ARF in NSCs and astrocytes by Ink4a/Arf genotype.
       +Control=p16INK4a and p19ARF overexpressing tumor cell line.
      FIG. 3. Ink4a/Arf-/-astrocytes dedifferentiate to   ***nestin***  +, A2B5+
       progenitor cells in vitro. Ink4a/Arf+/+ (A) and -/-(B) cells were removed
       from serum and grown in   ***EGF***   on day 0. Ink4a/ Arf-/-cells
       rapidly change morphology and resulting bipolar cells and neurospheres
       are   ***nestin***  + and A2B5+ (double labeling inset, far right panel
       of B), whereas Ink4a/Arf+/+ cells do not dedifferentiate and remain
         ***GFAP***  + (inset, far right panel of A). Western blot analysis of
       cultured astrocytes of indicated genotypes after treatment with
         ***EGF***  . C) Equivalent MAPK, AKT and D) EGFR phosphorylation is seen
       in Ink4a/Arf-/- and +/+ cells after   ***EGF***   exposure.
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Ink4a/Arf+/+ (A) and -/-(B) mice after intraventricular ***EGF*** infusion. Images (low and high power H&E, ***nestin*** and Olig2 staining) of E) Ink4a/Arf+/+ and F)-/-mice after intraventricular for 7 days of ***EGF*** . Arrows (3E) indicate a welldifferentiated ependymal layer of single cell that is replaced by an expanded population of poorly differentiated progenitor cells (bracket, 3F).

FIG. 4. Expression of EGFR* in Ink4a/Arf-/-NSCs and astrocytes induces high-grade gliomas. Tumors derived from orthotopically transplanted Ink4a/Arf-/-EGFR* (A) NSCs and (B) astrocytes are gadolinium enhancing on MRI, grow as poorly differentiated highgrade tumors (40 x H&E), and express ***GFAP*** , ***nestin*** , and olig2.

FIG. 5. A. p53-/-, p16INK4a-/- and p19ARF-/-astrocytes do not differentiate in response to ***EGF*** . Cultures were grown in serumfree media supplemented with ***EGF*** (20 ng/mL) for 10 days. In contrast to Ink4a/Arf-/-astrocytes, p53-/-, p16INK4a-/-, and p19ARF-/-astrocytes did not change morphology in response to ***EGF*** and remained ***GFAP*** + and ***nestin*** -(insets represent double labeling with ***GFAP*** (red) and ***nestin*** (green) (n=4 independently derived cell lines for each genotype). B. Ink4a/Arf-/astrocytes expressing the wild-type EGFR do not dedifferentiate in serum-free media containing without ***EGF*** . C. Ink4a/Arf-/astrocytes expressing EGFR* dedifferentiate in serum-free media lacking ***EGF*** . D. Ink4a/Arf+/+ astrocytes expressing EGFR* do not dedifferentiate. E. EGFR* expression in NSCs can substitute for ligand. Ink4a/Arf-/-EGFR* NSC cultures were grown in serum free media without ***EGF*** . Ink4a/Arf-/-cultures transduced with the wild-type EGFR do not proliferate under these conditions, but rather undergo apoptosis (not shown). F. Subcutaneous tumors derived from Ink4a/Arf-/-astrocytes transduced with EGFR*. High grade, undifferentiated tumors were ***GFAP*** +, ***nestin*** + and Olig2+, similar to intracranially generated tumors. Similar histology and immunoreactivity to ***GFAP*** , ***nestin*** , and Olig2 were found in subcutaneous tumors derived from Ink4a/Arf-/-NSCs transduced with EGFR* (not shown). G. Spindle-cell and epithelioid-cell morphology was seen in 1 tumor each derived from. All tumors demonstrated strong hEGFR* staining and were Sox10 positive as shown here for 1 tumor derived from Ink4a/Arf/-EGFR* astrocytes.

L5 ANSWER 16 OF 269 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 8
AN 10463023 IFIPAT;IFIUDB;IFICDB
TI ISOLATION AND TRANSPLANTATION OF RETINAL STEM CELLS
IN Klassen Henry J; Mizumoto Keiko (JP); Shatos Marie A; Young Michael J
PA Unassigned Or Assigned To Individual (68000)
PI US 2003207450 A1 20031106
AI US 2002-203105 20020806
WO 2001-US4419 20010212
20020806 PCT 371 date
20020806 PCT 102(e) date
FI US 2003207450 20031106
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 45
GI 19 Figure(s).

FIG. 1 depicts phase-contrast views (left, A) and greenfluorescent protein (GFP) illumination views (right, B) of GFPexpressing, neuroretina-derived retinal stem cell spheres at 3 days (top panel) and 6 days (bottom panel) after dissociation into single cell suspension.

FIGS. 2A and 2B are photomicrographs of NRSCs in vitro, labeled with antibodies against retinal stem cell markers: Ki-67, expressed by mitotic cells (left, FIG. 2A) and ***nestin*** , an intermediate filament protein in neural stem cells and immature neurons (right, FIG. 2B).

FIGS. 3A and 3B are photomicrographs of neuroretina-derived stem cells after their in vitro exposure to serum, labeled with an antibody against ***glial*** ***fibrillary*** ***acidic*** ***protein*** , a marker for astrocytes (anti- ***GFAP*** , left, FIG. 3A) and an antibody against neurofilament of 200 kD, a marker for mature neurons (antiNF200; right, FIG. 3B).

FIGS. 4A-4D are green fluorescent protein(GFP)-illuminated photomicrographs of four examples of mouse retinal explant recipient tissue (obtained postnatally on day 1), co-cultured with mouse retinal stem cell spheres for 7 days in vitro.

FIGS. 5A and 5B are two exemplary in situ photomicrographs of "green", neuroretina-derived retinal stem cells (derived from GFP-expressing transgenic mice), 2 weeks after being grafted in a host adult rd-2 mouse

photoreceptor-specific marker, rhodopsin.
FIGS. 6A-F are photomicrographs of "green" NRSCs grafted into various retinal sites, 2 weeks post-graft. FIGS. 6A-6C and FIGS. 6D-6F, respectively, show views of the same retinal site, under different illumination: GFP illumination (FIGS. 6A and 6D) , red-labeled anti-rhodopsin antibodies (FIGS. 6B and 6E); and ordinary photomicrograph (FIGS. 6F).
FIG. 7 is a confocal photomicrograph of "green" NRSCs grafted into an extra-ocular site, 2 weeks post-graft, labelled with red-labeled, anti-recoverin antibodies.
FIG. 8 is a confocal photomicrograph of "green" NRSCs grafted into a retinal site, 2 weeks post-graft, labelled with antirecoverin antibodies.
FIGS. 9A and 9B are photomicrographs showing GFP (green, FIG. 9A) and rhodopsin (red, FIG. 9B) expression in RD-2 mouse vitreous, 2 weeks after grafting.
FIGS. 10A-10C are photomicrographs of the same graft site: retinal stem cells grafted to the subretinal space of adult retina "green" NRSC from transgenic GFP-expressing mice, grafted to the subretinal space of adult retina in lesioned B6 mouse subretinal space, 2 weeks after grafting. FIG. 10A shows GFP expression (green illumination); FIG. 10B shows recoverin expression (staining of cells with red-labeled anti-recoverin antibodies); and FIG. 10C shows an overlay or merged view of FIGS. 11A and 11B.
FIGS. 11A-11C are confocal micrographs of the same graft site: "green" NRSC from transgenic GFP-expressing mice, grafted to the subretinal space of adult retina in lesioned B6 mouse subretinal space, 2 weeks after grafting. FIG. 11A shows GFP expression (green illumination); FIG. 11B shows recoverin expression (staining of cells with red-labeled anti-recoverin antibodies); and FIG. 11C shows an overlay or merged view of FIGS. 11A and 11B.
FIGS. 12A-12C show confocal micrographs of the same graft site: "green" NRSC grafted into lesioned B6 mouse subretinal space, 4 weeks after grafting. FIG. 12A shows recoverin expression (staining of cells with red-labeled anti-recoverin antibodies); FIG. 12B shows GFP expression (green illumination); and FIG. 12C is an overlay or merged view of FIGS. 12A and 12B.
FIG. 13 a low-power photomicrograph of cultured, human neuroretina-derived stem cells (hNRSCs), showing bipolar, multipolar, and round cells, with neuritic processes.
FIG. 14 is a photomicrograph of hNRSCs undergoing cell division.
FIG. 15 is a low-power photomicrograph of cultured hNRSCs, showing dividing cells and progenitor cells. The cells are observed in another sequence to be non-pigmented.
FIG. 16 is a low-power photomicrograph of cultured hNRSCs, developing long neuritic processes.
FIG. 17 is a phase photomicrograph showing the mitotic profile of hNRSCs.
FIG. 18 is a bright-field photomicrograph of hNRSCs, showing that they are not pigmented.
FIGS. 19A-19C are sequentially timed photomicrographs of the same cultured hNRSC specimen, showing a retinal stem or progenitor cell undergoing cell division. FIG. 19A shows the stem/progenitor cell before mitosis; FIG. 19B shows it during mitosis; and FIG. 19C shows it just after mitosis (with 2 daughter nuclei). FIG. 19C also shows a classic profile of an early, neural stem/progenitor cell.

L5 ANSWER 17 OF 269 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 9
AN 10389993 IFIPAT;IFIUDB;IFICDB
TI CELL PRODUCTION
IN Rathjen Joy (AU); Rathjen Peter David (AU)
PA Unassigned Or Assigned To Individual (68000)
PI US 2003134413 A1 20030717
AI US 2002-181359 20021203
WO 2001-AU30 20010112
20021203 PCT 371 date
20021203 PCT 102(e) date
PRAI AU 2000-5098 20000114
AU 2000-7045 20000420
FI US 2003134413 20030717
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 70
GI 15 Figure(s).
FIG. 1
FIG. 2

FIG. 4
FIG. 5
FIG. 6
FIG. 7
FIG. 8
FIG. 9
FIG. 10
FIG. 11
FIG. 12
FIG. 13
FIG. 14
FIG. 15

L5 ANSWER 18 OF 269 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 10
AN 10337746 IFIPAT;IFIUDB;IFICDB
TI DIFFERENTIATION OF WHOLE BONE MARROW
IN Ehtesham Moneeb; Kabos Peter; Yu John S
PA Unassigned Or Assigned To Individual (68000)
PI US 2003082160 A1 20030501
AI US 2002-253759 20020924
PRAI US 2001-334957P 20011025 (Provisional)
FI US 2003082160 20030501
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 52
GI 12 Figure(s).

FIG. 1 depicts neural progenitor cells obtained from human bone marrow in accordance with an embodiment of the present invention. FIG. 1A depicts cells from whole bone marrow that, when plated on poly-D-lysine, form a monolayer that gives rise to distinct cellular spheres after four days in culture. FIG. 1B depicts the spheres of FIG. 1A at higher magnification; cells may be easily collected, sub-cultured, and propagated separately in the presence of growth factors. FIG. 1C depicts that the spheres, once differentiated, attach and cells start migrating outward (arrows indicate migrating cells). FIG. 1D depicts that the formed spheres detach from the bottom and afterwards remain free-floating.

FIG. 2 is executed in color and depicts neural progenitor cells obtained from human bone marrow in accordance with an embodiment of the present invention. FIGS. 2A and 2B indicate that neurospheres (i.e., spheres derived from neural cells) and bone marrow-derived spheres, respectively, were morphologically indistinguishable. FIGS. 2C and 2D indicate that the pattern of ***nestin*** expression (red) was similar both in neurospheres and bone marrow derived spheres, respectively. Nuclei of cells appear blue owing to being counterstained with 4',6-diamidino-2phenylindole (DAPI).

FIG. 3 is executed in color and depicts neural progenitor cells obtained from human bone marrow in accordance with an embodiment of the present invention. FIG. 3A indicates that the bone marrow-derived spheres expressed the ectodermal marker vimentin. As depicted in FIG. 3B, a weak staining for fibronectin was also observed in the neural progenitor cells. As depicted in FIG. 3C, bone marrow-derived spheres exhibit strong expression of CD90, and, as depicted in FIG. 3D, the majority of the cells in spheres exhibit nuclear expression of Neurogenin 1.

FIG. 4 is executed in color and depicts a differentiation of bone marrow derived cells into neurons and glia in accordance with an embodiment of the present invention. After plating on a substrate in media devoid of growth factors, the bone marrowderived spheres attached, migrated away from the primary site of attachment, and displayed multiple morphologies, as depicted in FIG. 4A. FIGS. 4B and 4C depict neural progenitor cells of the present invention expressing the glial cell marker ***glial*** ***fibrillary*** ***acidic*** ***protein*** (***GFAP***) after eight and nine days of differentiation, respectively (cellular nuclei counterstained with DAPI). FIGS. 4D and 4E depict neural progenitor cells of the present invention expressing the neuronal marker Neuron Specific Enolase (NSE) after eight days of differentiation (cellular nuclei counterstained with DAPI). Scattered cells also expressed the later neuronal marker MAP2, as depicted in FIG. 4F. After transplantation of the bone marrow derived spheres into the hippocampus of a syngeneic animal, cells expressing NeuN were found, as depicted in FIG. 4G. Some of these cells appeared to integrate into the hippocampal structure, as depicted in FIG. 4H. FIGS. 4I, 4J and 4K depict a similar differentiation of bone marrow derived cells, with alternate antibodies used for immunocytochemistry. FIG. 4I depicts the use of the oligodendrocyte marker CNPase (1:400 Sigma) at 40 x magnification, while

Chemicon) at 20 x and 40 x magnification, respectively.
FIG. 5 is executed in color and depicts a gene transfer to neural progenitor cells using a beta-galactosidase genebearing replication-deficient adenoviral vector in accordance with an embodiment of the present invention.
FIG. 6 is executed in color and depicts neural progenitor cells infected with green fluorescent protein (GFP) bearing double herpes simplex virus type I in accordance with an embodiment of the present invention.
FIG. 7 is executed in color and depicts neurospheres generated from primary fetal brain culture in accordance with an embodiment of the present invention. FIG. 7A depicts neural progenitor cells grown into spherical aggregates. FIG. 7B depicts ***nestin*** expression by these neurospheres (nuclei counterstained with DAPI). Neurons expressed beta-III tubulin, astrocytes expressed ***GFAP*** , and oligodendrocytes expressed CNPase (FIGS. 7C, 7D, and 7E, respectively). FIG. 7F depicts expression of beta-galactosidase by neural progenitor cells infected in vitro with AdLacZ. Magnification 400 x for FIGS. 7B, 7C, 7D, and 7E; 100 x for FIGS. 7A and 7F.
FIG. 8 is executed in color and depicts an intra-arterial delivery of neural progenitor cells into an experimentally induced ischemic lesion in accordance with an embodiment of the present invention. Single cells are distributed widely throughout the brain tissue (FIG. 8A). Transplanted cells exhibit tropism for injured basal ganglia (FIG. 8B; at 400 x magnification).
FIG. 9 is executed in color and depicts neural progenitor cells tracking tumor cells in vivo in accordance with an embodiment of the present invention. FIG. 9A depicts a thin outgrowth of tumor cells deep into adjacent normal brain. FIG. 9B depicts a direct extension of tumor mass into adjacent tissue. FIG. 9C depicts a migration of glioma cells away from the primary tumor bed along a white matter tract. FIG. 9D depicts a tumor microsatellite independent of a main tumor mass. FIG. 9E depicts a high power photomicrograph of the microsatellite depicted in FIG. 9D; further depicting beta-galactosidasepositive neural progenitor cells interspersed with tumor cells. FIG. 9F shows an inoculation of neural progenitor cells (left panel) and a tumor mass (right panel) into which neural progenitor cells migrated from the opposite hemisphere (inset box). Neural progenitor cells appear blue (expressing betagalactosidase), whereas tumor cells appear red (hypercellular areas stained intensively with neural red). "T" represents tumor mass, outgrowths, and microsatellites. Arrows indicate disseminating neural progenitor cells closely following migrating pockets of tumor.
FIG. 10 is executed in color and depicts intratumoral CD4+ and CD8+ T-cell infiltration in accordance with an embodiment of the present invention. FIG. 10A depicts a flow cytometry analysis demonstrating intratumoral T-cell infiltration in brain tissue treated with neural progenitor cells secreting IL12 (left panel) and 3T3-IL-12 (center panel), and a comparative lack of infiltration in tissue treated with neural progenitor cells secreting LacZ (right panel). CD4+ (left panel) and CD8+ (right panel) intratumoral infiltration is depicted in tissue treated with neural progenitor cells secreting 3T3-IL-12, LacZ, and IL-12 (FIGS. 10B, 10C, and 10D, respectively). Aggregates appeared along the tumor/normal tissue boundary in tissue treated with neural progenitor cells secreting IL-12 (FIG. 10D, arrows indicate aggregates). FIG. 10E depicts a comparison of Tcell infiltration in comparable outgrowths from a primary tumor bed for tissue treated with neural progenitor cells secreting IL-12 and 3Y3-IL-12 (FIGS. 10E, left and right panels, respectively). "T" designates tumor and "N" designates normal brain tissue. Magnification 100 x for FIGS. 10B, 10C, and 10D, and 200 x for FIG. 10E.
FIG. 11 is executed in color and depicts transplantation of neural progenitor cells expressing GFP into rat hippocampus in accordance with an embodiment of the present invention. FIG. 11A depicts a migration of transplanted cells (green). FIG. 11B depicts individual cells expressing NSE (red) and GFP together with NSE (yellow). Transplanted cells were stained for NSE and exhibit GFP (green), NSE (red), and the merged image of green fluorescent protein (GFP) and NSE (green and red) (FIGS. 11C, 11D, and 11E, respectively). Magnification 100 x for FIG. 11A; 630 x for FIG. 11B; and 200 x for FIGS. 11C, 11D, and 11E.
FIG. 12 is executed in color and depicts neural progenitor cells, stained for LacZ, seen in the tumor outgrowth migrating out from the main tumor mass at 10 x (FIG. 12A) and 40 x (FIG. 12B) magnification. The sections were counterstained with hematoxylin.

L5 ANSWER 19 OF 269 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 11
AN 10324405 IFIPAT;IFIUDB;IFICDB
TI METHOD OF IN VITRO DIFFERENTIATION OF TRANSPLANTATABLE NEURAL PRECURSOR

IN Duncan Ian David; Thomson James A; Zhang Su-Chun
PA Unassigned Or Assigned To Individual (68000)
PI US 2003068819 A1 20030410
AI US 2001-970382 20011003
FI US 2003068819 20030410
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 17
GI 3 Figure(s).

FIGS. 1A-I. Differentiation and isolation of neural precursors from ES cells. (FIG. 1A) An attached EB grown in the presence of FGF2 for 5 days shows flattened cells at the periphery and small elongated cells congregated in the center. (FIG. 1B) By 7 days, many rosette formations (arrows) appeared in the differentiating EB center. The up-right inset is the 1-mu m section of the rosette stained with toluidine blue, showing columnar cells arranged in a tubular structure. Bar=20 mu m. (FIGS. 1C-E) Cells in a cluster of rosettes (low left) and a small forming rosette (center) are positive for ***nestin*** (FIG. 1C) and Musashi-1 (FIG. 1D) whereas the surrounding flat cells are negative. (FIG. 1E) A combined image of FIG. 1C and FIG. 1D with all cell nuclei labeled with DAPI. (FIG. 1F) After treatment with dispase for 20 minutes, the rosette formations retracted whereas the surrounding flat cells remained attached. (FIGS. 1G-I) Isolated cells are positively stained for ***nestin*** in a filamentous pattern (FIG. 1G), Musashi-1 in cytoplasm (FIG. 1H), and PSA-NCAM mainly on membrane (FIG. 1I). All nuclei are stained with DAPI. Bar=100 mu m.

FIGS. 2A-G. Characterization of ES cell-derived neural precursors in vitro. (FIG. 2A) BrdU incorporation by dissociated ES cell-derived neural precursors is elevated in the presence of FGF2 (20 ng/ml) but not with ***EGF*** (20 ng/ml) or LIF (5 ng/ml). This is representative data from one of 3 replicate experiments. * indicates difference between the experimental group and the control group (p less-than 0.01, n=4, student t-test). (FIG. 2B) Differentiation of a cluster of ES cell-derived neural precursors for 3 weeks shows neurite bundles with cells migrating along them. (FIG. 2C) Immunostaining after 3 weeks of differentiation indicates that the majority of cells are beta III-tubulin+ neurons (red) and that only a few cells are ***GFAP*** + astrocytes (green). (FIG. 2D) After 45 days of differentiation, many more ***GFAP*** + astrocytes (green) appear along with NF200+ neurites (red, yellowish due to overlapping with green ***GFAP***). (FIGS. 2E-G) ES cell-derived neurons with various morphologies express distinct neurotransmitters such as glutamate (FIG. 2E), GABA (FIG. 2F) and the enzyme tyrosine hydroxylase (FIG. 2G). O4+ oligodendrocytes (arrows) are observed after 2 weeks of differentiation in a glial differentiation medium. Bar=100 mu m.

FIGS. 3A-K. Incorporation and differentiation of ES cell-derived neural precursors in vivo. Grafted cells are detected by in situ hybridization with a probe to the human alu-repeat element (FIGS. 3A-E, G) or an antibody to a human-specific nuclear antigen (FIG. 3F). (FIG. 3A) Individual donor cells in the host cortex of an 8-week-old recipient (arrows). (FIG. 3B) Extensive incorporation of ES cell-derived neural precursors in the hippocampal formation. Cells hybridized with the human alu probe are labeled with red dots (pseudo-colored). (FIG. 3C) Incorporated human cells in the vicinity of the hippocampal pyramidal layer at P14. (FIG. 3D) ES cell-derived cells in the septum of a 4-week-old recipient mouse. (FIG. 3E) High power view of an individual donor cell in the hypothalamus. Note the seamless integration between adjacent unlabeled host cells. (FIG. 3F) Donor cells in the striatum of a 4-week-old host, detected with an antibody to a human-specific nuclear antigen. (FIG. 3G) Extensive migration of transplanted cells from the aqueduct into the dorsal midbrain. (FIG. 3H) Human ES cellderived neuron in the cortex of a 2-week-old host, exhibiting a polar morphology and long processes. The cell is double labeled with antibodies to a human-specific nuclear marker (green) and beta III-tubulin (red). (FIG. 3I) Network of donor-derived axons in the fimbria of the hippocampus, identified with an antibody to human neurofilament. (FIG. 3J) Donor-derived multipolar neuron, double labeled with an antibody recognizing the a and b isoforms of MAP2. (FIG. 3K) ES cell-derived astrocyte in the cortex of a 4-week-old animal, double labeled with the human nuclear marker (green) and an antibody to ***GFAP*** (red). Note that all the double labelings are confocal images and are confirmed by single optical cuts. Bars: FIG. 3A, FIG. 3B, FIG. 3G 200 mu m; FIG. 3C, FIG. 3D 100 mu m; FIG. 3E, FIG. 3F, FIGS. 3H-K 10 mu m.

L5 ANSWER 20 OF 269 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 12

TI MULTIPOTENT STEM CELLS FROM PERIPHERAL TISSUES AND USES THEREOF; CELLULAR COMPOSITION FOR USE IN REGENERATION MEDICINE
IN Akhavan Mahnaz (CA); Fernandes Karl J L (CA); Fortier Mathieu (CA); Miller Freda (CA); Toma Jean (CA)
PA Unassigned Or Assigned To Individual (68000)
PI US 2003003574 A1 20030102
AI US 2002-99539 20020315
RLI US 2000-490422 20000124 CONTINUATION-IN-PART ABANDONED
US 2000-670049 20000925 CONTINUATION-IN-PART PENDING
WO 2001-CA47 20010124 CONTINUATION-IN-PART UNKNOWN
US 2001-916639 20010726 CONTINUATION-IN-PART PENDING
US 2001-991480 20011109 CONTINUATION-IN-PART PENDING
FI US 2003003574 20030102
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
OS CA 138:52348
CLMN 73
GI 31 Figure(s).

FIGS. 1A-1G are photographs showing that mouse skin-derived MSCs are nestinpositive and are capable of differentiating into neurons, glia, and smooth muscle cells.

FIG. 2 is a series of photographs showing that neonate and adult mouse skin-derived MSCs express both ***nestin*** (middle row) and fibronectin protein (bottom row).

FIG. 3A is a series of photographs showing western blot analysis for ***nestin*** , neurofilament M (NF-M) and ***GFAP*** in cells differentiated from neonate and adult mouse skin-derived MSCs.

FIG. 3B is a series of photographs showing that human skinderived MSCs express ***nestin*** .

FIG. 3C is a series of photographs showing that a subset of morphologically complex cells expressed ***nestin*** and beta tubulin, a profile typical of newly-born neurons.

FIG. 3D is a series of photographs showing that GFP positive cells are also positive for neuron-specific enolase.

FIG. 4A is a photograph showing the expression of A2B5, a marker for oligodendrocyte precursors, on undifferentiated mouse skinderived MSCs.

FIG. 4B is a photograph showing the expression of the oligodendrocyte marker galactocerebroside (GaIC) on cells differentiated from mouse skin-derived MSCs.

FIG. 5 is a series of photographs showing that the fate of mouse skin-derived MSCs can be manipulated by controlling plating conditions.

FIG. 6 is a series of photographs showing that neonate and adult mouse skin-derived MSCs can differentiate as adipocytes.

FIGS. 7A and 7B are photographs showing that ***nestin*** -positive, fibronectin-positive MSCs can be derived from mouse dermis.

FIGS. 8A and 8B are photographs showing that individual MSCs are multipotent. Clones derived from single cells contained NF-Mpositive cells (arrowheads) and CNPase-positive cells (arrows). Arrowheads indicate cells that only express ***GFAP*** , while arrows indicate cells expressing both ***GFAP*** and CNPase.

FIGS. 9A and 9B are photographs of western blot analysis of cells differentiated from mouse skin-derived MSCs (FIG. 9A) or of MSCs themselves (FIG. 9B).

FIG. 10 is a series of photographs showing the effect of various pharmacological agents on mouse skin-derived MSCs.

FIGS. 11A-11E are photographs of immunoprocessed sections of rat brains into which mouse skin-derived MSCs were transplanted.

FIG. 12 shows that ***nestin*** +, fibronectin+skin-derived MSCs isolated from adult human scalp differentiate into cells that express a variety of neural and non-neural markers, as measured by immunocytochemistry with antibodies to beta III-tubulin (A), CNPase (B), and smooth muscle actin (C), and ***GFAP*** (D).

FIG. 13 are photographs of skin-derived stem cells plated in 15% FBS in the presence of skeletogenic supplements and cultured for two weeks. The cells are stained with Alcian Blue which reveals nodules of chondrocyte-associated acidic proteoglycans.

FIG. 14 are photographs of skin-derived stem cells plated in 15% FBS in the presence of skeletogenic supplements and cultured for three weeks. The cells are stained with Alizarin Red which identified osteoblast-associated calcium accumulations.

FIG. 15 are photographs of skin-derived stem cells plated in 15% FBS in the presence of skeletogenic supplements, cultured for three weeks, and co-stained with both Alcian Blue and Alizarin Red. Co-staining reveals that the calcium deposits occur within a layer of chondrocytic

FIG. 16 are photographs of skin-derived stem cells plated in 15% FBS in the presence of skeletogenic supplements and cultured for 4-5 weeks, and demonstrate the formation of optically dense deposits indicative of bone formation.

FIG. 17 shows that co-culture of GFP labeled skin-derived stem cells with cardiac myocytes induces expression of fetal cardiac actin. The expression of fetal cardiac actin co-localizes with GFP indicating that the differentiated cell is derived from the skin-derived stem cell.

FIG. 18 shows that co-culture of GFP labeled skin-derived stem cells with C2C12 cells induces expression of desmin. The expression of desmin co-localizes with GFP, and the morphology of this desmin expressing cell is indicative of a skeletal muscle cell.

FIG. 19 shows RT-PCR analysis of skin-derived MSCs grown in spheres (S), plated in proliferation media for three days (3d), or plated in proliferation media for three days followed by two days in 5% serum (3d+2). The skin-derived MSCs express ***nestin*** , GATA-4, and Myf6. Positive controls (+ve) are: E10 brain (for ***nestin***), embryoid bodies (for GATA-4), and muscle (for Myf6).

FIG. 20 shows that skin-derived MSCs express endodermal markers under certain differentiation conditions. Skin-derived MSCs were cultured under standard proliferation conditions in the presence or absence of B-27 supplement. Differentiation was induced by plating cells in the presence of nicotinamide, and the resulting differentiated cells were analyzed by quantitative RT-PCR. The graph demonstrates that skin-derived MSCs differentiated in the presence of nicotinamide express several markers of endodermal differentiation including GATA-4, HNF3 alpha, Isl1, AFP, HNF3 beta, Ngn3, Pdx-1, and Insulin. Although cells proliferated in either the presence or the absence of B27 supplement can be induced to express endodermal markers, cells proliferated in B27 appear to express such markers to a higher degree.

FIG. 21 shows that agents, including therapeutic proteins and small molecules, influence the proliferation, differentiation, and/or survival of skin-derived stem cells. Cells were dissociated and plated in the presence of either 5% FBS, 5% FBS+retinoic acid (RA), or 5% FBS+BMP7. Cells were analyzed immunocytochemically for expression of neurofilament M (NFM). Note the bottom panels shows a 40 x magnification of the cells.

FIG. 22 shows that the skin-derived stem cells of the invention are a cell population distinct from mesenchymal stem cells. Mesenchymal stem cells and skin-derived stem cells were cultured under identical conditions, and immunocytochemical analysis was performed using antibodies to ***nestin*** , fibronectin, vimentin, and cytokeratin. The top panels are photographs of mesenchymal stem cells, and the bottom panels are photographs of the skinderived stem cells. Note not only the differences in protein expression, but also the differences in morphology between the two cell types.

FIG. 23 shows that skin-derived stem cells isolated from human foreskin proliferate as non-adherent clusters in culture. The top panels show that skin-derived stem cells specifically isolated from the dermal layer of human foreskin proliferate as non-adherent clusters. In contrast to human central nervous system derived stem cells, the survival and proliferation of human skin-derived stem cells is not dependent on LIF. The bottom panels show that skin-derived stem cells isolated from foreskin express ***nestin*** and fibronectin.

FIG. 24 shows that skin-derived stem cells isolated from human foreskin differentiate to form highly morphologically complex neurons as assayed by expression of bIII-tubulin and neurofilament-M (NF-M).

FIG. 25 shows that skin-derived stem cells isolated from human foreskin differentiate to form glial cells as assayed by expression of ***GFAP*** and CNP.

FIG. 26 shows that skin-derived stem cells isolated from human foreskin differentiate to form additional neuronal cells types as assayed by expression of S100 and peripherin. S100 is a marker of bipolar cells and peripherin is a marker of peripheral neurons.

FIG. 27 shows that skin-derived stem cells isolated from human foreskin differentiate to form non-neural cell types as assayed by expression of smooth muscle actin.

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FIGS. 1A and 1B: The monoclonal nature of each putative human neural stem cell (NSC) clone is confirmed by demonstrating a single retroviral insertion site within the genomes of each. (A) Genomic DNA from the putative human NSC clone H1 (which was propagated in bFGF and subsequently transduced with a retrovirus encoding lacZ and neo) was digested with Hind III (which cuts only once within the provirus) and incubated with a radiolabeled nucleotide probe complementary to neo. Monoclonal derivation is confirmed by the presence of a single integrated retrovirus with an integration site common to all cells in the colony indicating that they were derived from a single infected "parent" cell (arrow). As a positive control, the murine NSC clone C17.2 which contains 2 integrated retroviruses encoding neo (one from an integrated vmyc-encoding retrovirus and one from a separate lacZ-encoding retrovirus13,28 appropriately shows 2 bands (arrows). Specificity of the probe is demonstrated by the negative control, the human meduloblastoma cell line DaOY, which, having not been infected with a retrovirus, shows no neo sequences in its genome and hence no hybridization product. (B) Genomic DNA from putative clones H9, H6, D10, and C2 (human NSC colonies propagated in bFGF and/or ***EGF*** and then subsequently infected with a retrovirus encoding the propagating gene vmyc) were digested with Bgl II or Bam HI (each of which cuts only once within the provirus) and then subjected to Southern analysis utilizing a probe complementary to the proviral vmyc. Single retroviral integration sites are appreciated in all colonies confirming the monoclonal nature of each putative clone. The murine NSC clone C17.2, which contains a single copy of vmyc13,28 and serves as a positive control, also has one band. As in (A), the negative control non-virally infected human DaOY cells, have no bands.

FIGS. 2A-2E: Characterization of human neural stem cells (NSCs) in vitro. (A) NSCs tend to grow as clusters in serum-free bFGFsupplemented medium. They differentiate spontaneously into neurofilament-immunoreactive neurons (B) or CNPaseimmunoreactive oligodendrocytes (C) when transferred to serumcontaining medium, or into ***GFAP*** -expressing astrocytes when cocultured with primary murine CNS cultures (and identified with a human-specific anti- ***GFAP*** antibody) as, for example in (D), illustrating a typical type-1 protoplasmic astrocyte. Hence, a single clone has the potential for generating cells of all neural lineages ("multipotency"). New immature, undifferentiated, vimentin-immunoreactive NSCs (E) are present in clones under all conditions, suggesting the ability of a clone to "self-renew" (i.e., produce new multipotent NSCs).

FIGS. 3A-3N: Human neural stem cells (NSCs) are capable of complementing a prototypical gene product deficiency (e.g., beta-hexosaminidase-A) in neural cells of multiple lineages in which the gene is mutated (e.g., brain cells from Tay-Sachs mice). As a proof of principle that human NSCs (like murine NSCs) are capable of cross-correcting a neurogenetic defect, neural cells from the brains of mice with the prototypical neurogenetic disorder Tay-Sachs disease, generated via targeted mutagenesis of the alpha-subunit of beta-hexosaminidase resulting in absence of hexosaminidase-A39, were exposed to secreted gene products from human NSCs to assess their ability to effect complementation of the defect. (A-C) Hexosaminidase activity as determined by NASBG histochemistry (Nomarski optics) . Functional hexosaminidase produces a red-pink precipitate with an intensity proportional to the level of activity. (A) Tay-Sachs neural cells (arrows) not exposed to NSCs have no, or minimal, detectable hexosaminidase. (A small number of faintly pink NASBG+ cells are occasionally observed reflecting low residual hexosaminidase-B activity). In comparison, Tay-Sachs neural cells exposed to secretory products from murine NSCs (e. g., clone C17.2H) (B) or from human NSCs (C) now stain intensely red (wildtype intensity) suggesting that they have been cross-corrected, i.e., have internalized significant amounts of functionally active hexosaminidase from the NSCconditioned medium. (D-L) To help determine which neural cell types from the Tay-Sachs brain were cross-corrected, primary dissociated Tay-Sachs neural cells which had been co-cultured in a transwell system with human NSCs (as in (C)) were reacted both with a fluorescein-labeled antibody to the human a-subunit of hexosaminidase (D-F) and with antibodies to neural cell typespecific

respectively). Photomicroscopy through a dual filter confirmed co-localizaton of the alpha-subunit with the celltype markers (J-L, respectively). A subset of these now alphasubunit-positive corrected cells (D) were neurons, as indicated by their expression of the neuronal marker NeuN (G,J); a subset of the alpha-subunit+cells (E) were glial, as illustrated by their co-expression of the glial marker ***GFAP*** (H,K); and a subset of the alpha-subunit+cells (F) were immature, undifferentiated CNS precursors, as indicated by the presence of the intermediate filament ***nestin*** (I,L). (Untreated cells from a Tay-Sachs brain do not stain for the alpha-subunit). (M) Percentage of successfully rescued (i.e., NASBG+) primary TaySachs neural cells as seen in (A-C). The number of "untreated" Tay-Sachs alpha-subunit-null cells (-/-) (i.e., unexposed to NSCs) that were NASBG+(1st histogram) was quite low. (That the percentage is not 0 reflects some low residual hexosaminidase-B activity in mutant cells that is sometimes sufficient enough in some cells to produce a pale pink scoreable cell). In contrast, among Tay-Sachs neural cells "treated" with secretory products from murine NSCs (C17.2) (2nd histogram), murine NSCs engineered to over-express hexosaminidase (C17.2H) (3rd histogram), or human NSCs (4th histogram), the percentage of cross-corrected, hexosaminidase-containing cells was significantly increased (p less-than 0.01). The NSCs did not significantly differ from each other in their ability to effect this rescue. (NASBG staining of neural cells from a wildtype mouse served as a positive control and were nearly 100% NASBG+, histogram not presented). (N) Complementation of gene product deficiency results in rescue of a pathologic phenotype in mutated neural cells, as illustrated by percentage of Tay-Sachs CNS cells with diminished GM2 accumulation. Among Tay-Sachs cells not exposed to NSCs (1st histogram), the percentage of GM2+cells was large reflecting their pathologically high level of storage and consistent with a lack of enzyme as per (M). In contrast, the percentage of cross-corrected Tay-Sachs cells without detectable GM2 storage following exposure to murine (2nd and 3rd histograms, as in (M)) or human NSCs (4th histogram) was significantly lower than in the mutant (p lessthan 0.01), approaching that in wildtype (+/+) mouse brain (5th histogram). Again, the NSCs did not significantly differ from each other in their ability to effect this rescue.

FIGS. 4A-4E: Developmentally-appropriate migration of human neural stem cells (NSCs) following engraftment into the subventricular germinal zone (SVZ) of newborn mice. (A,B) Donorderived human NSCs integrate and intermingle nondisruptively with endogenous progenitors within the host SVZ by 24 hours after transplantation. A representative donor-derived cell with a typical short process (red), highlighted in (A), has interspersed with densely packed endogenous SVZ cells, visualized by DAPI (blue) in the overlapping image in (B). (C) Two weeks following transplantation, many donor-derived cells (red) have migrated extensively within the subcortical white matter (arrow) and corpus callosum (c) from their site of implantation in the lateral ventricles (LV), as visualized in this coronal section. A representative migrating cell within the subcortical white matter (arrow), visualized at higher magnification in the boxed insert, is noted to have a leading process characteristic of migrating precursor cells. (D,E) As seen in this representative cresyl violet-counterstained parasagittal section, other donor-derived cells migrated from their integration site in the anterior SVZ to enter the rostral migratory stream ("RMS") leading to the olfactory bulb ("OB"). Representative BrdU-immunoperoxidase-positive (brown) donorderived cells (arrow) within the RMS, are seen at low power in (D) and visualized at higher magnification in (E), intermixed with migrating host cells. Further characterization and visualization of these donor human NSC-derived cells in their final location in the OB are presented in FIG. 5. Scale Bars: 100 mu m.

FIGS. 5A-5Q: Differentiation and disseminated foreign gene (beta-galactosidase) expression of human neural stem cell (NSC) clones in vivo following engraftment into the SVZ of developing, neonatal mice. (A-C) Stably engrafted, beta-galactosidase (beta gal)-expressing, donor-derived cells from representative human NSC clone H1, detected with Xgal histochemistry (A,B) and with anti-beta gal ICC (C). The donor-derived cells pictured in the series of photomicrographs in (A) are within the periventricular and subcortical white matter regions (as per FIG. 4). (The top and bottom panels-low power on the left, corresponding high power on the right-are from representative semi-adjacent regions within a single recipient, suggesting a significant distribution of cells; arrows indicate the lateral ventricles). Furthermore, as illustrated in (B,C) by representative high power photomicrographs through the olfactory bulb (OB) (located as in FIG. 4D), donor-derived cells from this clone have not only migrated extensively to this

this distant location (i.e., in a disseminated fashion in vivo). The normal fate of a subpopulation of SVZderived progenitors that have migrated to the OB at this developmental stage is to become neuronal In (D-G), donorderived neurons in the mature OB, derived from BrdU-labeled NSCs (representative clone H6 implanted into the SVZ at birth, are identified by both their immunoreactivity to a humanspecific NF antibody (D) as well as their expression of the mature neuronal marker, NeuN (E-G); under confocal microscopy, a BrdU+ (hence, donor-derived) cell (arrow in (E), fluorescein) is NeuN+ (arrow in (F), Texas Red) appreciated best with a dual filter (arrow in (G)). Adjacent to this representative donorderived BrdU+/NeuN+ neuron (arrow), are 2 host OB neurons (BrdU/NeuN+ in (G)) which share a similar size, morphology, and location with the donor-derived cell (arrow in F). (H,I) High power view of a representative donor-derived (clone H6) oligodendrocyte (arrow), appropriately in the adult subcortical white matter (as per FIG. 4C) following neonatal intraventricular implantation, double-labeled with an antibody to the oligodendrocyte-specific protein CNPase (H) and BrdU (I). Characteristic cytoplasmic processes extending from the soma are noted (arrowhead in (H)). The morphology of the CNPase+cell has been somewhat damaged by the HCl pre-treatment required for BrdU double-labeling). (J) Mature donor-derived astrocytes (clone H6) in the adult subcortical white matter (arrow) (as per FIG. 4C) and striatum following neonatal intraventricular implantation, identified with a human-specific anti- ***GFAP*** antibody. The inset better illustrates at higher magnification the characteristic mature astrocytic morphology of a representative human- ***GFAP*** +cell. (K-Q) Expression of vmyc is downregulated within 48 hours following engraftment. (K), (M), and (O) are DAPI-based nuclear stains of the adjacent panels (L) , (N), and (P, Q), respectively. Representative human NSC clone H6 was generated (as was the well-characterized murine NSC clone C17.2) with the propagating gene vmyc. vmyc immunoreactivity in H6-derived cells (red) in the SVZ (arrows) at 24 hours following engraftment ((L) and at higher power in (N)), is persistently absent (P) in integrated H6-derived cells (visualized by BrdU labeling in (Q) (shown here 3 weeks following transplantation, but representative of any point 24 hours after engraftment). Scale Bars: (A), (K) and applies to (L): 100 mu m; (D), (E) and applies to (F,G), (H) and applies to (I), (J), (M) and applies to (N): 10 mu m; ()) and applies to (P,Q): 50 mu m

FIGS. 6A-6J: Neuronal replacement by human neural stem cells (NSCs) following transplantation into the cerebellum of the granule neuron-deficient meander tail (mea) mouse model of neurodegeneration. (A-G) BrdU-intercalated, donor-derived cells (from representative clone H6) identified in the mature cerebellum by anti-BrdU immunoperoxidase cytochemistry (brown nuclei) following implantation into the neonatal mea external germinal layer (EGL). (The EGL, on the cerebellar surface, disappears as the internal granule layer (IGL) emerges to become the deepest cerebellar cortical layer at the end of organogenesis13) (A) Clone H6-derived cells are present in the IGL ("igl"; arrowheads) of all lobes of the mature cerebellum in this parasagittal section. (Granule neurons are diminished throughout the cerebellum with some prominence in the anterior lobe). (B) Higher magnification of the representative posterior cerebellar lobe indicated by arrowhead "b" in (A), demonstrating the large number of donor-derived cells present within the recipient IGL. (C-G) Increasing magnifications of donor-derived cells (brown nuclei) within the IGL of a mea anterior cerebellar lobe. (Different animal from that in (A,B).) (G) Normarski optics bring out the similarity in size and morphology of the few residual host, BrdU-negative cerebellar granule neurons (arrowheads) and a BrdU+, donor-derived neuron (arrow), which is representative of those seen in all engrafted lobes of all animals.) (H,I) Confirmation of the neuronal differentiation of a subpopulation of the donor-derived, BrdU+cells from (A-G) is illustrated by co-labeling with antiBrdU (green in H) and the mature neuronal marker NeuN (red in I) (indicated with corresponding arrows). (Some adjacent, donorderived cells are non-neuronal as indicated by their BrdU+ (arrowhead in (H)) but NeuN-phenotype (also illustrating the specificity of the immunostaining). (J) Cells within the IGL are confirmed to be human donor-derived cells by FISH with a human-specific probe (red) identifying human chromosomal centromeres. Scale Bars: (A), (B): 100 mu m; (F), (G), (J): 10 mu m!

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FIGS. 5A-5Q: Differentiation and disseminated foreign gene (beta-galactosidase) expression of human neural stem cell (NSC) clones in vivo following engraftment into the SVZ of developing, neonatal mice. (A-C) Stably engrafted, beta-galactosidase (beta gal)-expressing, donor-derived cells from representative human NSC clone H1, detected with Xgal histochemistry (A,B) and with anti-beta gal ICC (C). The donorderived cells pictured in the series of photomicrographs in (A) are within the periventricular and subcortical white matter regions (as per FIG. 4). (The top and bottom panels-low power on the left, corresponding high power on the right-are from representative semi-adjacent regions within a single recipient, suggesting a significant distribution of

illustrated in (B,C) by representative high power photomicrographs through the olfactory bulb (OB) (located as in FIG. 4D), donor-derived cells from this clone have not only migrated extensively to this developmentally-appropriate site, but continue to express beta gal in this distant location (i.e., in a disseminated fashion in vivo). The normal fate of a subpopulation of SVZderived progenitors that have migrated to the OB at this developmental stage is to become neuronal.
In (D-G), donor-derived neurons in the mature OB, derived from BrdU-labeled NSCs (representative clone H6) implanted into the SVZ at birth, are identified by both their immunoreactivity to a human-specific NF antibody (D) as well as their expression of the mature neuronal marker, NeuN (E-G); under confocal microscopy, a BrdU+(hence, donor-derived) cell (arrow in (E), fluorescein) is NeuN+(arrow in (F), Texas Red) appreciated best with a dual filter (arrow in (G)). Adjacent to this representative donor-derived BrdU+/NeuN+neuron (arrow), are 2 host OB neurons (BrdU-/NeuN+in (G)) which share a similar size, morphology, and location with the donor-derived cell (arrow in F). (H,I) High power view of a representative donor-derived (clone H6) oligodendrocyte (arrow), appropriately in the adult subcortical white matter (as per FIG. 4C) following neonatal intraventricular implantation, double-labeled with an antibody to the oligodendrocyte-specific protein CNPase (H) and BrdU (I). Characteristic cytoplasmic processes extending from the soma are noted (arrowhead in (H)). (The morphology of the CNPase+cell has been somewhat damaged by the HCl pre-treatment required for BrdU double-labeling). (J) Mature donor-derived astrocytes (clone H6) in the adult subcortical white matter (arrow) (as per FIG. 4C) and striatum following neonatal intraventricular implantation, identified with a human-specific anti- ***GFAP*** antibody. The inset better illustrates at higher magnification the characteristic mature astrocytic morphology of a representative human- ***GFAP*** +cell. (K-Q) Expression of vmyc is downregulated within 48 hours following engraftment. (K), (M) , and (O) are DAPI-based nuclear stains of the adjacent panels (L), (N), and (P, Q), respectively. Representative human NSC clone H6 was generated (as was the well-characterized murine NSC clone C17.2) with the propagating gene vmyc. vmyc immunoreactivity in H6-derived cells (red) in the SVZ (arrows) at 24 hours following engraftment ((L) and at higher power in (N)), is persistently absent (P) in integrated H6-derived cells (visualized by BrdU labeling in (Q) (shown here 3 weeks following transplantation, but representative of any point 24 hours after engraftment). Scale Bars: (A), (K) and applies to (L): 100 mu m; (D), (E) and applies to (F,G), (H) and applies to (I), (J), (M) and applies to (N): 10 mu m; (O)) and applies to (P,Q): 50 mu m
FIGS. 6A-6J: Neuronal replacement by human neural stem cells (NSCs) following transplantation into th cerebellum of the granule neuron-deficient meander tail (mea) mouse model of neurodegeneration. (A-G) BrdU-intercalated, donor-derived cells (from representative clone H6) identified in the mature cerebellum by anti-BrdU immunoperoxidase cytochemistry (brown nuclei) following implantation into the neonatal mea external germinal layer (EGL). (The EGL, on the cerebellar surface, disappears as the internal granule layer (IGL) emerges to become the deepest cerebellar cortical layer at the end of organogenesis13) (A) Clone H6-derived cells are present in the IGL ("igl"; arrowheads) of all lobes of the mature cerebellum in this parasagittal section. (Granule neurons are diminished throughout the cerebellum with some prominence in the anterior lobe). (B) Higher magnification of the representative posterior cerebellar lobe indicated by arrowhead "b" in (A), demonstrating the large number of donor-derived cells present within the recipient IGL. (C-G) Increasing magnifications of donor-derived cells (brown nuclei) within the IGL of a mea anterior cerebellar lobe. (Different animal from that in (A,B).) (G) Normarski optics bring out the similarity in size and morphology of the few residual host, BrdU-negative cerebellar granule neurons (arrowheads) and a BrdU+, donor-derived neuron (arrow), which is representative of those seen in all engrafted lobes of all animals.) (H,I) Confirmation of the neuronal differentiation of a subpopulation of the donor-derived, BrdU+cells from (A-G) is illustrated by co-labeling with antiBrdU (green in H) and the mature neuronal marker NeuN (red in I) (indicated with corresponding arrows). (Some adjacent, donorderived cells are non-neuronal as indicated by their BrdU+(arrowhead in (H)) but NeuN-phenotype (also illustrating the specificity of the immunostaining). (J) Cells within the IGL are confirmed to be human donor-derived cells by FISH with a human-specific probe (red) identifying human chromosomal centromeres. Scale Bars: ((A), (B): 100 mu m; (F), (G), (J): 10 mu m!

```
TI      ***TGF***  -alpha polypeptides, functional fragments and methods of
        use therefor
IN      Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES
        Pernet, Andre, Lake Forest, IL, UNITED STATES
        Felker, Thomas S., Vashon, WA, UNITED STATES
        Paskell, Stefan, Bainbridge Island, WA, UNITED STATES
        Reno, John M., Brier, WA, UNITED STATES
PI      US 2003036509      A1   20030220
        US 6677307         B2   20040113
AI      US 2002-138158     A1   20020501 (10)
RLI     Continuation-in-part of Ser. No. US 2000-641587, filed on 17 Aug 2000,
        PENDING Continuation-in-part of Ser. No. US 2000-559248, filed on 26 Apr
        2000, PENDING Continuation-in-part of Ser. No. US 1999-459813, filed on
        13 Dec 1999, PENDING Continuation-in-part of Ser. No. US 1999-378567,
        filed on 19 Aug 1999, ABANDONED
DT      Utility
FS      APPLICATION
LN.CNT 2915
INCL    INCLM: 514/012.000
        INCLS: 530/399.000
NCL     NCLM:  514/012.000
        NCLS:  530/300.000; 530/402.000
IC      [7]
        ICM: A61K038-18
        ICS: C07K014-475
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 24 OF 269  CAPLUS  COPYRIGHT 2004 ACS on STN
AN    2003:154584  CAPLUS
DN    138:201346
TI    Generation of multipotent central nervous system stem cells
IN    U, Hoi Sang
PA    Regents of the University of California, USA
SO    PCT Int. Appl., 62 pp.
      CODEN: PIXXD2
DT    Patent
LA    English
FAN.CNT 1
      PATENT NO.       KIND  DATE          APPLICATION NO.  DATE
      ---------------  ----  --------      ---------------  --------
PI    WO 2003016507     A2   20030227      WO 2002-US9160   20020323
      WO 2003016507     A3   20030515
          W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
              PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
              UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
              TJ, TM
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
              CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
              BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRAI US 2001-278510P    P    20010323

L5    ANSWER 25 OF 269  IFIPAT  COPYRIGHT 2004 IFI on STN
AN     10399316  IFIPAT;IFIUDB;IFICDB
TI     LONG-TERM CELL-CULTURE COMPOSITIONS AND GENETICALLY MODIFIED ANIMALS
       DERIVED THEREFROM
IN     Hayes Eric Shannon (CA); Lacham-Kaplan Orly (AU); Morrison John Roderick
       (AU); Pera Martin Frederick (AU); Trounson Alan Osborne (AU)
PI     US 2003143737   A1   20030731
AI     US 2000-732520       20001207
PRAI   AU 1999-4495         19991207
       AU 2000-9242         20000807
       AU 2000-1108         20001031
       AU 2000-1109         20001031
FI     US 2003143737        20030731
DT     Utility; Patent Application - First Publication
FS     CHEMICAL
       APPLICATION
CLMN   44
GI      11 Figure(s).
      FIG. 1 shows the neural stem cells form a multilayered culture displaying
       a number of morphologies depending on whether the cells are in direct
       contact with the tissue culture plate or are part of a secondary layer
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of budding structures (FIG. 1B), which will eventually "hatch" generating balls of cells floating in the media. These balls can be cultured in suspension or disaggregated to for growing on tissue culture plates.

FIG. 2 shows that the cells are positive for a number of markers consistent with neural stem cells including ***nestin*** (FIG. 2A) and vimentin (FIG. 2B).

FIG. 3 shows A) B) phase contract images of FNS cells that have been allowed to differentiate by passaging at low density. The cells are positive for markers of differentiated neuronal stem cells. C) shows differentiated neuronal stem cells expressing ***GFAP*** , which is a marker of glial cells, using immunofluorescence. D) shows differentiated cells expressing beta-tubulin a marker consistent with neurones using immunofluorescence.

FIG. 4 shows the effect of bFGF (FGF2) on FNS cell proliferation. bFGF ranging in concentration from 0-50 ng/ml was applied to various passage FNS cells (ie passage 2-12). At early passage number the cells show some independence of added growth factors which is lost past passage #5. Optimal bFGF stimulated proliferation of FNS cells occurs at approximately 5 ng/ml.

FIG. 5 shows the effect of ***EGF*** on FNS cell proliferation, ***EGF*** ranging in concentration from 0-50 ng/ml was applied to various passage FNS cells (ie passage 2-12). At early passage number the cells show some independence of added growth factors which is lost past passage #5. Optimal bFGF stimulated proliferation of FNS cells occurs at approximately 5 ng/ml.

FIG. 6 shows the combined effect of ***EGF*** and bFGF on FNS cell proliferation: A) Low concentration and B) high concentration. The combined effect of ***EGF*** and bFGF was tested on FNS cells. An optimal concentration of 2-5 ng/ml was observed for each growth factor when used in combination.

FIG. 7 shows long-term culture of FNS cells in the presence of and absence of ***EGF*** or bFGF. While there appears to be some variation between the various passages it was generally noted that there was little added benefit to adding both ***EGF*** and bFGF over adding bFGF alone to the culture system. However the FNS cells appear to be more responsive to ***EGF*** in the early passages.

FIG. 8 shows the effect of lipid on the propagation of foetal neural stem cells. All cells were propagated in the standard Neurobasal A media (with supplements) in the presence or absence of the Chemically defined lipid concentrate (diluted 1:100).

FIG. 9 shows the characteristics of cells grown in either DMEM/ F12 media or Neurobasal A (plus supplements) media with or without the addition of the chemically defined lipid supplement. A) DMEM/F12-lipid (10 x magnification); B) DMEM/F2-lipid (32 x magnification); C) DMEM/F12+lipid (10 x magnification); D) DMEM/ F12+lipid (20 x magnification); E) Neurobasal A-lipid (10 x magnification); F) Neurobasal A-lipid (32 x magnification); G) Neurobasal A+lipid (10 x magnification); H) Neurobasal A+lipid (20 x magnification)

FIG. 10 shows assessment of FNS cell proliferation using BrdU incorporation at 160 x magnification. A) and C) shows BrdU incorporation into passage #2 and passage #17 cells, respectively; BrdU incorporation is visualised using an mouse monoclonal anti-BrdU (Sigma) in combination with FITC conjugated goat anti-mouse. Photos are paired-there is one shot of BrdU immunofluorescence A) and C), and one shot of the same cells using phase contrast microscopy B) and D).

FIG. 11 shows the histology of tumours formed by the injection of PC12 cells (a neuronal cell tumour line) into SCID mice. Tissues were collected 19 days after injection and stained with H&E. The tumour morphology is consistent with neuroblastoma SCID mice injected with FNS cells (passage # 12) failed to display any signs of tumour formation after 13 weeks.

L5 ANSWER 26 OF 269 IFIPAT

AN 3838518 IFIPAT;IFIUDB;IFICDB

TI BONE MARROW CELLS AS A SOURCE OF NEURONS FOR BRAIN AND SPINAL CORD REPAIR; BONE-MARROW DERIVED NEURONAL CELLS FOR USE IN THE TREATMENT OF NERVOUS SYSTEM DISORDERS

IN Freeman Thomas; Janssen William; Sanberg Paul; Sanchez-Ramos Juan; Song Shijie

PA South Florida, University of (16948)

PI	US 6528245	B2	20030304
	US 2002146821	A1	20021010
AI	US 1999-307824		19990507
PRAI	US 1998-84533P		19980507 (Provisional)
	US 1998-112979P		19981217 (Provisional)

FI   US 6528245   20030304
        US 2002146821   20021010
DT   Utility
FS   CHEMICAL
        GRANTED
MRN   010150   MFN: 0426
        011898   0610
        012219   0446
CLMN   5
GI   9 Drawing Sheet(s), 32 Figure(s).

FIG. 1 is a bar graph. BMSC adherent to culture dishes were treated with ***EGF*** (10 ng/ml), RA (0.5 mu M) or RA plus BDNF (10 ng/ml) for 7 days. Each bar represents the mean number (+-SEM) of fibronectin immunoreactive cells per visual field (20 x objective) determined in 20 fields per dish in 4 culture dishes. *=p less-than 0.05, two-tailed t-test

FIGS. 2A through 2F are photomicrographs of BMSC from lacZ mice that have been co-cultured with mouse fetal midbrain cells for 2 weeks in N5 medium supplemented with cis-9 retinoic acid (0.5 mu M) and BDNF (10 ng/ml).

FIGS. 3A through 3F are photomicrographs, which illustrate the migration and integration of BMSC into rat midbrain. FIG. 3A (scale bar=500 mu m) shows symmetrical distribution despite unilateral grafting into the striatum. FIG. 3B is a region of the paraventricular nucleus (scale bar=100 mu m). None of the beta-gal+cells are labeled with the red-brown stain (TH-ir). FIGS. 3A (Scale bar=500 mu m), 3B (Scale bar=100 mu m) and 3C (Scale bar=50 mu m) depict cells doubly stained for beta-gal and TH-ir. FIGS. 3D (Scale bar=50 mu m) and 3E (Scale bar=25 mu m) illustrate sections from the red nucleus that have doubly stained for beta-gal and NeuN-ir. FIG. 3F (Scale bar=25 mu m) illustrates beta-gal+cells from the red nucleus also doubly stained for MAP2-ir.

FIGS. 4A through 4F are photomicrographs of a section from rat cerebellar lobule illustrating laminar distribution of betagal+cells in a distribution of Purkinje cells. beta-gal+are colabeled with calbindin immunoreactivity in FIGS. 4A, 4B, and 4C. (Scale bar=100 mu m in 4A, 50 mu m in 4B and 25 mu m in 4C). FIG. 4D shows beta-gal+Purkinje cells co-labeled with GAD-ir (Scale bar=50 mu m). FIG. 4E illustrates dense MAP2-ir fibers enveloping beta-gal+Purkinje cells (Scale bar=25 mu m). FIG. 4F illustrates beta-gal+cells co-labeled with NeuN-ir in the deep cerebellar nucleus (Scale bar=25 mu m).

FIGS. 5A through 5D are photomicrographics showing the production of markers for fibronectin (FIG. 5A) and differentiated BMSC with nerve cell markers (FIGS. 5B, 5C and 5D).

FIG. 6 is a Western blot of the lysates of BMSC conditioned with four different treatments and labeled with ***GFAP*** -ir, ***nestin*** and NeuN. BDNF+RA+N5 induced the strongest expression of nerve cell markers while glial cell markers was most strongly expressed after N5 alone.

FIGS. 7A through 7F are photomicrographs of human BMSC which were co-cultured with fetal rat striatal cells in N5 formulation with BDNF+RA. These figures show that human BMSC (green labeled in FIGS. 7C and 7D and yellow in FIGS. 7E and 7F) can be induced to express neural markers NeuN (FIGS. 7A and 7E) and ***GFAP*** (FIGS. 7B and 7F).

FIG. 8 is a photomicrograph of rat brain, showing that mouse BMSC labeled with red PKH26 also express the neuron marker NeuNir (green fluorescence). In addition, the morphology of the doubly labeled cells is that of neurons.

FIG. 9 is a photomicrograph of rat brain, showing a doubly labelled glial cell. The red fluorescent tracer identifies it as derived from a BMSC, and the green fluorescence is due to ***GFAP*** -ir. Note the morphology is that of a glial cell.

L5   ANSWER 27 OF 269 USPATFULL on STN
AN   2003:324321 USPATFULL
TI   Use of human neural stem cells secreting GDNF for treatment of
        parkinson's and other neurodegenerative diseases
IN   Svendsen, Clive N., Madison, WI, UNITED STATES
PI   US 2003228295   A1   20031211
AI   US 2003-423710   A1   20030425 (10)
PRAI   US 2002-375587P   20020425 (60)
DT   Utility
FS   APPLICATION
LN.CNT 736
INCL   INCLM: 424/093.210
        INCLS: 435/368.000
NCL   NCLM: 424/093.210

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IC      [7]
        ICM: A61K048-00
        ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 28 OF 269  USPATFULL on STN
AN      2003:318230  USPATFULL
TI      Myelination of congenitally dysmyelinated forebrains using
        oligodendrocyte progenitor cells
IN      Goldman, Steven A., South Salem, NY, UNITED STATES
        Roy, Neeta Singh, New York, NY, UNITED STATES
        Windrem, Martha, New York, NY, UNITED STATES
PI      US 2003223972       A1   20031204
AI      US 2003-368810      A1   20030214 (10)
PRAI    US 2002-358006P     20020215 (60)
DT      Utility
FS      APPLICATION
LN.CNT 1308
INCL    INCLM: 424/093.210
        INCLS: 435/368.000; 435/456.000; 435/459.000; 435/458.000
NCL     NCLM:  424/093.210
        NCLS:  435/368.000; 435/456.000; 435/459.000; 435/458.000
IC      [7]
        ICM: A61K048-00
        ICS: C12N005-08; C12N015-86; C12N015-88; C12N015-87
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 29 OF 269  USPATFULL on STN
AN      2003:300379  USPATFULL
TI      Reprogramming cells for enhanced differentiation capacity using
        pluripotent stem cells
IN      Earp, David J., Oakland, CA, UNITED STATES
        Carpenter, Melissa K., Castro Valley, CA, UNITED STATES
        Gold, Joseph D., San Francisco, CA, UNITED STATES
        Lebkowski, Jane S., Portola Valley, CA, UNITED STATES
        Schiff, J. Michael, Menlo Park, CA, UNITED STATES
PI      US 2003211603       A1   20031113
AI      US 2003-344680      A1   20030212 (10)
        WO 2001-US25493          20010814
DT      Utility
FS      APPLICATION
LN.CNT 1597
INCL    INCLM: 435/366.000
NCL     NCLM:  435/366.000
IC      [7]
        ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 30 OF 269  USPATFULL on STN
AN      2003:299866  USPATFULL
TI      Neutral progenitor cells from hippocampal tissue and a method for
        isolating and purifying them
IN      Goldman, Steven A., South Salem, NY, UNITED STATES
PI      US 2003211087       A1   20031113
AI      US 2002-181329      A1   20021023 (10)
        WO 2001-US1780           20010118
DT      Utility
FS      APPLICATION
LN.CNT 1199
INCL    INCLM: 424/093.210
        INCLS: 435/368.000; 435/456.000
NCL     NCLM:  424/093.210
        NCLS:  435/368.000; 435/456.000
IC      [7]
        ICM: A61K048-00
        ICS: C12N005-08; C12N015-861
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 31 OF 269  USPATFULL on STN
AN      2003:288603  USPATFULL
TI      13 human colon and colon cancer associated proteins
IN      Rosen, Craig A., Laytonsville, MD, UNITED STATES
        Birse, Charles E., North Potomac, MD, UNITED STATES
PA      Human Genome Sciences, Inc., Rockville, MD (U.S. corporation)
PI      US 2003203361       A1   20031030
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RLI     Continuation-in-part of Ser. No. WO 2000-US22157, filed on 11 Aug 2000,
        PENDING
PRAI    US 1999-148680P      19990813 (60)
DT      Utility
FS      APPLICATION
LN.CNT  19712
INCL    INCLM: 435/006.000
        INCLS: 435/007.230; 435/069.300; 435/183.000; 435/320.100; 435/325.000;
               536/023.200
NCL     NCLM:  435/006.000
        NCLS:  435/007.230; 435/069.300; 435/183.000; 435/320.100; 435/325.000;
               536/023.200
IC      [7]
        ICM: C12Q001-68
        ICS: G01N033-574; C07H021-04; C12N009-00; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 32 OF 269  USPATFULL on STN
AN      2003:283103  USPATFULL
TI      Enhancing neurotrophin-induced neurogenesis by endogenous neural
        progenitor cells by concurrent overexpression of brain derived
        neurotrophic factor and an inhibitor of a pro-gliogenic bone
        morphogenetic protein
IN      Goldman, Steven A., South Salem, NY, UNITED STATES
        Chmielnicki, Eva, New York, NY, UNITED STATES
        Economides, Aris, Tarrytown, NY, UNITED STATES
PI      US 2003199447       A1    20031023
AI      US 2003-368809      A1    20030214 (10)
PRAI    US 2002-358005P      20020215 (60)
DT      Utility
FS      APPLICATION
LN.CNT  1728
INCL    INCLM: 514/012.000
        INCLS: 514/044.000; 424/093.200
NCL     NCLM:  514/012.000
        NCLS:  514/044.000; 424/093.200
IC      [7]
        ICM: A61K048-00
        ICS: A61K038-18
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 33 OF 269  USPATFULL on STN
AN      2003:258639  USPATFULL
TI      207 human secreted proteins
IN      Ni, Jian, Germantown, MD, UNITED STATES
        Ebner, Reinhard, Gaithersburg, MD, UNITED STATES
        LaFleur, David W., Washington, DC, UNITED STATES
        Moore, Paul A., Germantown, MD, UNITED STATES
        Olsen, Henrik S., Gaithersburg, MD, UNITED STATES
        Rosen, Craig A., Laytonsville, MD, UNITED STATES
        Ruben, Steven M., Olney, MD, UNITED STATES
        Soppet, Daniel R., Centreville, VA, UNITED STATES
        Young, Paul E., Gaithersburg, MD, UNITED STATES
        Shi, Yanggu, Gaithersburg, MD, UNITED STATES
        Florence, Kimberly A., Rockville, MD, UNITED STATES
        Wei, Ying-Fei, Berkeley, CA, UNITED STATES
        Florence, Charles, Rockville, MD, UNITED STATES
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        Feng, Ping, Gaithersburg, MD, UNITED STATES
        Endress, Gregory A., Florence, MA, UNITED STATES
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        Carter, Kenneth C., North Potomac, MD, UNITED STATES
        Brewer, Laurie A., St. Paul, MN, UNITED STATES
        Yu, Guo-Liang, Berkeley, CA, UNITED STATES
        Zeng, Zhizhen, Lansdale, PA, UNITED STATES
        Greene, John M., Gaithersburg, MD, UNITED STATES
PI      US 2003181692       A1    20030925
AI      US 2001-933767      A1    20010822 (9)
RLI     Continuation-in-part of Ser. No. WO 2001-US5614, filed on 21 Feb 2001,
        PENDING Continuation-in-part of Ser. No. US 1998-205258, filed on 4 Dec
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PRAI	US 2000-184836P	20000224	(60)
	US 2000-193170P	20000329	(60)
	US 1997-48885P	19970606	(60)
	US 1997-49375P	19970606	(60)
	US 1997-48881P	19970606	(60)
	US 1997-48880P	19970606	(60)
	US 1997-48896P	19970606	(60)
	US 1997-49020P	19970606	(60)
	US 1997-48876P	19970606	(60)
	US 1997-48895P	19970606	(60)
	US 1997-48884P	19970606	(60)
	US 1997-48894P	19970606	(60)
	US 1997-48971P	19970606	(60)
	US 1997-48964P	19970606	(60)
	US 1997-48882P	19970606	(60)
	US 1997-48899P	19970606	(60)
	US 1997-48893P	19970606	(60)
	US 1997-48900P	19970606	(60)
	US 1997-48901P	19970606	(60)
	US 1997-48892P	19970606	(60)
	US 1997-48915P	19970606	(60)
	US 1997-49019P	19970606	(60)
	US 1997-48970P	19970606	(60)
	US 1997-48972P	19970606	(60)
	US 1997-48916P	19970606	(60)
	US 1997-49373P	19970606	(60)
	US 1997-48875P	19970606	(60)
	US 1997-49374P	19970606	(60)
	US 1997-48917P	19970606	(60)
	US 1997-48949P	19970606	(60)
	US 1997-48974P	19970606	(60)
	US 1997-48883P	19970606	(60)
	US 1997-48897P	19970606	(60)
	US 1997-48898P	19970606	(60)
	US 1997-48962P	19970606	(60)
	US 1997-48963P	19970606	(60)
	US 1997-48877P	19970606	(60)
	US 1997-48878P	19970606	(60)
	US 1997-57645P	19970905	(60)
	US 1997-57642P	19970905	(60)
	US 1997-57668P	19970905	(60)
	US 1997-57635P	19970905	(60)
	US 1997-57627P	19970905	(60)
	US 1997-57667P	19970905	(60)
	US 1997-57666P	19970905	(60)
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	US 1997-57769P	19970905	(60)
	US 1997-57763P	19970905	(60)
	US 1997-57650P	19970905	(60)
	US 1997-57584P	19970905	(60)
	US 1997-57647P	19970905	(60)
	US 1997-57661P	19970905	(60)
	US 1997-57662P	19970905	(60)
	US 1997-57646P	19970905	(60)
	US 1997-57654P	19970905	(60)
	US 1997-57651P	19970905	(60)
	US 1997-57644P	19970905	(60)
	US 1997-57765P	19970905	(60)
	US 1997-57762P	19970905	(60)
	US 1997-57775P	19970905	(60)
	US 1997-57648P	19970905	(60)
	US 1997-57774P	19970905	(60)
	US 1997-57649P	19970905	(60)
	US 1997-57770P	19970905	(60)
	US 1997-57771P	19970905	(60)
	US 1997-57761P	19970905	(60)
	US 1997-57760P	19970905	(60)
	US 1997-57776P	19970905	(60)
	US 1997-57778P	19970905	(60)
	US 1997-57629P	19970905	(60)
	US 1997-57628P	19970905	(60)
	US 1997-57777P	19970905	(60)
	US 1997-57634P	19970905	(60)
	US 1997-70923P	19971218	(60)

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       US 1998-94657P      19980730 (60)
       US 1997-70923P      19971218 (60)
       US 1998-92921P      19980715 (60)
       US 1998-94657P      19980730 (60)
DT     Utility
FS     APPLICATION
LN.CNT 32746
INCL   INCLM: 536/023.100
       INCLS: 530/350.000; 435/325.000; 435/183.000; 435/069.100; 435/320.100
NCL    NCLM:  536/023.100
       NCLS:  530/350.000; 435/325.000; 435/183.000; 435/069.100; 435/320.100
IC     [7]
       ICM: C07H021-04
       ICS: C12N009-00; C12P021-02; C12N005-06; C07K014-435
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 34 OF 269  USPATFULL on STN
AN     2003:251168  USPATFULL
TI     Human embryoid body-derived cells
IN     Shamblott, Michael J., Baltimore, MD, UNITED STATES
       Gearhart, John D., Baltimore, MD, UNITED STATES
PI     US 2003175954      A1   20030918
AI     US 2001-767421     A1   20010122 (9)
PRAI   US 2000-177287P     20000121 (60)
DT     Utility
FS     APPLICATION
LN.CNT 2867
INCL   INCLM: 435/366.000
       INCLS: 435/069.100
NCL    NCLM:  435/366.000
       NCLS:  435/069.100
IC     [7]
       ICM: C12N005-08
       ICS: C12P021-02
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 35 OF 269  USPATFULL on STN
AN     2003:238119  USPATFULL
TI     Cultures of human CNS neural stem cells
IN     Carpenter, Melissa, Foster City, CA, UNITED STATES
PI     US 2003166276      A1   20030904
AI     US 2002-328644     A1   20021223 (10)
RLI    Division of Ser. No. US 2000-486302, filed on 16 Oct 2000, GRANTED, Pat.
       No. US 6498018
DT     Utility
FS     APPLICATION
LN.CNT 1035
INCL   INCLM: 435/368.000
NCL    NCLM:  435/368.000
IC     [7]
       ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 36 OF 269  USPATFULL on STN
AN     2003:232090  USPATFULL
TI     Method for inducing differentiation of embryonic stem cells into
       functioning cells
IN     Inoue, Kazutomo, Sakyo-ku, JAPAN
       Kim, Dohoon, Sakyo-ku, JAPAN
       Gu, Yanjun, Sakyo-ku, JAPAN
       Ishii, Michiyo, Kamigyo-ku, JAPAN
PI     US 2003162290      A1   20030828
AI     US 2002-54789      A1   20020125 (10)
DT     Utility
FS     APPLICATION
LN.CNT 907
INCL   INCLM: 435/366.000
       INCLS: 435/372.000
NCL    NCLM:  435/366.000
       NCLS:  435/372.000
IC     [7]
       ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 37 OF 269  USPATFULL on STN
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TI      Cultures, products and methods using stem cells
IN      Weiss, Mark L., Manhattan, KS, UNITED STATES
        Troyer, Deryl L., Manhattan, KS, UNITED STATES
        Davis, Duane, Westmoreland, KS, UNITED STATES
        Mitchell, Kathy E., Manhattan, KS, UNITED STATES
PA      Kansas State University Research Foundation (U.S. corporation)
PI      US 2003161818       A1   20030828
AI      US 2002-83779       A1   20020225 (10)
DT      Utility
FS      APPLICATION
LN.CNT 1447
INCL    INCLM: 424/093.210
        INCLS: 435/372.000; 514/044.000; 435/368.000
NCL     NCLM:  424/093.210
        NCLS:  435/372.000; 514/044.000; 435/368.000
IC      [7]
        ICM: A61K048-00
        ICS: C12N005-08

L5    ANSWER 38 OF 269  USPATFULL on STN
AN      2003:231619  USPATFULL
TI      Pluripotent embryonic-like stem cells, compositions, methods and uses
        thereof
IN      Young, Henry E., Macon, GA, UNITED STATES
        Lucas, Paul A., Poughkeepsie, NY, UNITED STATES
PI      US 2003161817       A1   20030828
AI      US 2001-820320      A1   20010328 (9)
DT      Utility
FS      APPLICATION
LN.CNT 10419
INCL    INCLM: 424/093.210
        INCLS: 435/366.000
NCL     NCLM:  424/093.210
        NCLS:  435/366.000
IC      [7]
        ICM: A61K048-00
        ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 39 OF 269  USPATFULL on STN
AN      2003:213876  USPATFULL
TI      Human embryonic germ cell line and methods of use
IN      Gearhart, John D., Baltimore, MD, UNITED STATES
        Shamblott, Michael Joseph, Baltimore, MD, UNITED STATES
PA      THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE (U.S. corporation)
PI      US 2003148514       A1   20030807
AI      US 2003-359917      A1   20030207 (10)
RLI     Continuation of Ser. No. US 2000-553640, filed on 20 Apr 2000, GRANTED,
        Pat. No. US 6562619 Continuation of Ser. No. US 1998-52772, filed on 31
        Mar 1998, GRANTED, Pat. No. US 6245566 Continuation-in-part of Ser. No.
        US 1997-989744, filed on 12 Dec 1997, GRANTED, Pat. No. US 6331406
        Continuation-in-part of Ser. No. US 1997-829372, filed on 31 Mar 1997,
        GRANTED, Pat. No. US 6090622
DT      Utility
FS      APPLICATION
LN.CNT 1855
INCL    INCLM: 435/368.000
NCL     NCLM:  435/368.000
IC      [7]
        ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 40 OF 269  USPATFULL on STN
AN      2003:213236  USPATFULL
TI      Neural transplantation using pluripotent neuroepithelial cells
IN      Sinden, John, London, UNITED KINGDOM
        Gray, Jeffrey A., London, UNITED KINGDOM
        Hodges, Helen, London, UNITED KINGDOM
        Kershaw, Timothy, London, UNITED KINGDOM
        Rashid-Doubell, Fiza, Oxford, UNITED KINGDOM
PI      US 2003147873       A1   20030807
AI      US 2003-376119      A1   20030228 (10)
RLI     Continuation of Ser. No. US 2001-760274, filed on 12 Jan 2001, PENDING
        Continuation of Ser. No. US 2000-672606, filed on 28 Sep 2000, PENDING
        Continuation of Ser. No. US 1998-43061, filed on 12 Mar 1998, ABANDONED
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        UNKNOWN
PRAI    GB 1995-18606          19950912
DT      Utility
FS      APPLICATION
LN.CNT  1038
INCL    INCLM: 424/093.210
        INCLS: 435/368.000
NCL     NCLM:  424/093.210
        NCLS:  435/368.000
IC      [7]
        ICM: A61K048-00
        ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 41 OF 269  USPATFULL on STN
AN      2003:187957  USPATFULL
TI      Method of isolating ependymal neural stem cells
IN      Frisen, Jonas, Stockholm, SWEDEN
        Janson, Ann Marie, Stockholm, SWEDEN
        Johansson, Clas, Stockholm, SWEDEN
        Momma, Stefan, Spanga, SWEDEN
        Clarke, Diana, Stockholm, SWEDEN
        Zhao, Ming, Solna, SWEDEN
        Lendahl, Urban, Sundbyberg, SWEDEN
        Delfani, Kioumars, Solna, SWEDEN
PI      US 2003129747       A1    20030710
AI      US 2002-326438      A1    20021220 (10)
RLI     Continuation of Ser. No. US 1998-104772, filed on 25 Jun 1998, GRANTED,
        Pat. No. US 6541247
DT      Utility
FS      APPLICATION
LN.CNT  1145
INCL    INCLM: 435/368.000
        INCLS: 424/093.210; 800/009.000
NCL     NCLM:  435/368.000
        NCLS:  424/093.210; 800/009.000
IC      [7]
        ICM: A01K067-00
        ICS: A61K048-00; C12N005-08

L5    ANSWER 42 OF 269  USPATFULL on STN
AN      2003:172722  USPATFULL
TI      Compositions and methods for isolation, propagation, and differentiation
        of human stem cells and uses thereof
IN      Neuman, Toomas, Santa Monica, CA, UNITED STATES
        Levesque, Michel, Beverly Hills, CA, UNITED STATES
PI      US 2003118566       A1    20030626
AI      US 2002-216677      A1    20020808 (10)
PRAI    US 2001-310727P       20010808 (60)
        US 2001-312714P       20010816 (60)
DT      Utility
FS      APPLICATION
LN.CNT  1836
INCL    INCLM: 424/093.210
        INCLS: 424/093.700; 435/368.000
NCL     NCLM:  424/093.210
        NCLS:  424/093.700; 435/368.000
IC      [7]
        ICM: A61K048-00
        ICS: C12N005-08

L5    ANSWER 43 OF 269  USPATFULL on STN
AN      2003:166054  USPATFULL
TI      Pluripotent stem cells derived without the use of embryos or fetal
        tissue
IN      Levanduski, Mike, River Vale, NJ, UNITED STATES
PI      US 2003113910       A1    20030619
AI      US 2001-26420       A1    20011219 (10)
DT      Utility
FS      APPLICATION
LN.CNT  3528
INCL    INCLM: 435/325.000
        INCLS: 435/354.000; 435/366.000
NCL     NCLM:  435/325.000
        NCLS:  435/354.000; 435/366.000
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        ICM: C12N005-06
        ICS: C12N005-08; C12N015-85
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 44 OF 269  USPATFULL on STN
AN      2003:159428  USPATFULL
TI      Lineage restricted glial precursors from the central nervous system
IN      Rao, Mahendra S., Salt Lake City, UT, UNITED STATES
        Noble, Mark, Brighton, NY, UNITED STATES
        Mayer-Proschel, Margot, Pittsford, NY, UNITED STATES
PI      US 2003109041       A1    20030612
AI      US 2002-335354      A1    20021230 (10)
RLI     Division of Ser. No. US 2001-736728, filed on 16 Mar 2001, PENDING
        Continuation of Ser. No. US 1997-980850, filed on 29 Nov 1997, GRANTED,
        Pat. No. US 6235527
DT      Utility
FS      APPLICATION
LN.CNT 1443
INCL    INCLM: 435/368.000
NCL     NCLM:  435/368.000
IC      [7]
        ICM: C12N005-08

L5    ANSWER 45 OF 269  USPATFULL on STN
AN      2003:159426  USPATFULL
TI      Enriched central nervous system stem cell and porgenitor cell
        populations, and methods for identifying, isolating and enriching for
        such populations
IN      Buck, David W., Heathfield, UNITED KINGDOM
        Uchida, Nobuko, Palo Alto, CA, UNITED STATES
        Weissman, Irving, Redwood City, CA, UNITED STATES
PI      US 2003109039       A1    20030612
AI      US 2002-193049      A1    20020711 (10)
RLI     Continuation-in-part of Ser. No. US 1999-422844, filed on 21 Oct 1999,
        GRANTED, Pat. No. US 6468794
PRAI    US 2001-339337P      20011105 (60)
        US 1999-119725P      19990212 (60)
DT      Utility
FS      APPLICATION
LN.CNT 1524
INCL    INCLM: 435/368.000
        INCLS: 435/007.210
NCL     NCLM:  435/368.000
        NCLS:  435/007.210
IC      [7]
        ICM: G01N033-567
        ICS: C12N005-08

L5    ANSWER 46 OF 269  USPATFULL on STN
AN      2003:152283  USPATFULL
TI      Screening small molecule drugs using neural cells differentiated from
        human embryonic stem cells
IN      Carpenter, Melissa K., Castro Valley, CA, UNITED STATES
        Denham, Jerrod J., San Francisco, CA, UNITED STATES
        Inokuma, Margaret S., San Jose, CA, UNITED STATES
        Thies, R. Scott, Pleasanton, CA, UNITED STATES
PI      US 2003103949       A1    20030605
AI      US 2002-157288      A1    20020528 (10)
RLI     Continuation-in-part of Ser. No. US 2001-859351, filed on 16 May 2001,
        PENDING Continuation-in-part of Ser. No. US 2001-872183, filed on 31 May
        2001, PENDING Continuation-in-part of Ser. No. US 2001-888309, filed on
        21 Jun 2001, PENDING
PRAI    WO 2001-US15861      20010516
        US 2000-205600P      20000517 (60)
        US 2000-213739P      20000622 (60)
        US 2000-257608P      20001222 (60)
DT      Utility
FS      APPLICATION
LN.CNT 1776
INCL    INCLM: 424/093.210
        INCLS: 435/004.000; 435/368.000
NCL     NCLM:  424/093.210
        NCLS:  435/004.000; 435/368.000
IC      [7]
        ICM: A61K048-00
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 47 OF 269 USPATFULL on STN
AN 2003:134091 USPATFULL
TI Ependymal neural stem cells and method for their isolation
IN Janson, Ann Marie, Stockholm, SWEDEN
Frisen, Jonas, Stockholm, SWEDEN
Johansson, Clas, Stockholm, SWEDEN
Momma, Stefan, Spinga, SWEDEN
Clarke, Diana, Cambridge, MA, UNITED STATES
Zhao, Ming, Solna, SWEDEN
Lendahl, Urban, Stockholm, SWEDEN
Delfani, Kioumars, Solna, SWEDEN
PA NeuroNova AB
PI US 2003092176 A1 20030515
AI US 2002-183728 A1 20020627 (10)
RLI Continuation of Ser. No. US 2001-719001, filed on 12 Jul 2001, ABANDONED
A 371 of International Ser. No. WO 1999-SE1157, filed on 24 Jun 1999,
UNKNOWN
PRAI SE 1998-2264 19980625
DT Utility
FS APPLICATION
LN.CNT 1758
INCL INCLM: 435/368.000
NCL NCLM: 435/368.000
IC [7]
ICM: C12N005-08

L5 ANSWER 48 OF 269 USPATFULL on STN
AN 2003:120321 USPATFULL
TI METHOD FOR NEURAL STEM CELL DIFFERENTIATION USING 5HT1A AGONISTS
IN Rajan , Prithi , Dr., 106 Lynch Street, Rockville, Maryland, UNITED
STATES 20850
Altar , C. Anthony , Mr., 1110 Kenilworth Avenue, Garrett Park,
Maryland, UNITED STATES 20896
PA Psychiatric Genomics, Inc., Gaithersburg, 20878, UNITED STATES, Maryland
(U.S. corporation)
PI US 2003082802 A1 20030501
AI US 2002-175360 A1 20020618 (10)
PRAI US 2001-60299152 20010618
DT Utility
FS APPLICATION
LN.CNT 1784
INCL INCLM: 435/368.000
INCLS: 514/001.000
NCL NCLM: 435/368.000
NCLS: 514/001.000
IC [7]
ICM: C12N005-08
ICS: C12Q001-68; A61K031-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 49 OF 269 USPATFULL on STN
AN 2003:120030 USPATFULL
TI Methods of screening biological agents
IN Weiss, Samuel, Alberta, CANADA
Reynolds, Brent, Alberta, CANADA
Hammang, Joseph P., Barrington, RI, UNITED STATES
Baetge, E. Edward, Barrington, RI, UNITED STATES
PI US 2003082515 A1 20030501
AI US 2002-199189 A1 20020719 (10)
RLI Continuation of Ser. No. US 1995-486313, filed on 7 Jun 1995, PENDING
Continuation-in-part of Ser. No. US 1994-270412, filed on 5 Jul 1994,
ABANDONED Continuation of Ser. No. US 1991-726812, filed on 8 Jul 1991,
ABANDONED Continuation of Ser. No. US 1995-385404, filed on 7 Feb 1995,
ABANDONED Continuation of Ser. No. US 1992-961813, filed on 16 Oct 1992,
ABANDONED Continuation-in-part of Ser. No. US 1991-726812, filed on 8
Jul 1991, ABANDONED Continuation-in-part of Ser. No. US 1994-359945,
filed on 20 Dec 1994, ABANDONED Continuation of Ser. No. US 1994-221655,
filed on 1 Apr 1994, ABANDONED Continuation of Ser. No. US 1992-967622,
filed on 28 Oct 1992, ABANDONED Continuation-in-part of Ser. No. US
1991-726812, filed on 8 Jul 1991, ABANDONED Continuation-in-part of Ser.
No. US 1995-376062, filed on 20 Jan 1995, ABANDONED Continuation of Ser.
No. US 1993-10829, filed on 29 Jan 1993, ABANDONED Continuation-in-part
of Ser. No. US 1991-726812, filed on 8 Jul 1991, ABANDONED

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        ABANDONED Continuation-in-part of Ser. No. US 1991-726812, filed on 8
        Jul 1991, ABANDONED Continuation-in-part of Ser. No. US 1994-311099,
        filed on 23 Sep 1994, ABANDONED Continuation-in-part of Ser. No. US
        1991-726812, filed on 8 Jul 1991, ABANDONED Continuation-in-part of Ser.
        No. US 1994-338730, filed on 14 Nov 1994, ABANDONED Continuation-in-part
        of Ser. No. US 1991-726812, filed on 8 Jul 1991, ABANDONED
DT      Utility
FS      APPLICATION
LN.CNT 3844
INCL    INCLM: 435/004.000
        INCLS: 435/368.000
NCL     NCLM:  435/004.000
        NCLS:  435/368.000
IC      [7]
        ICM: C12Q001-00
        ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 50 OF 269  USPATFULL on STN
AN      2003:119667  USPATFULL
TI      Adipose-derived stem cells and lattices
IN      Hedrick, Marc H., Encino, CA, UNITED STATES
        Katz, Adam J., Charlottesville, VA, UNITED STATES
        Llull, Ramon, Mallorca, SPAIN
        Futrell, J. William, Pittsburgh, PA, UNITED STATES
        Benhaim, Prosper, Encino, CA, UNITED STATES
        Lorenz, Hermann Peter, Belmont, CA, UNITED STATES
        Zhu, Min, Los Angeles, CA, UNITED STATES
PI      US 2003082152      A1   20030501
AI      US 2001-952522     A1   20010910 (9)
RLI     Continuation-in-part of Ser. No. WO 2000-US6232, filed on 10 Mar 2000,
        UNKNOWN
PRAI    US 1999-123711P     19990310 (60)
        US 1999-162462P     19991029 (60)
DT      Utility
FS      APPLICATION
LN.CNT 6443
INCL    INCLM: 424/093.210
        INCLS: 435/366.000
NCL     NCLM:  424/093.210
        NCLS:  435/366.000
IC      [7]
        ICM: A61K048-00
        ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 51 OF 269  USPATFULL on STN
AN      2003:113090  USPATFULL
TI        ***Nestin***  -expressing hair follicle stem cells
IN      Li, Lingna, San Diego, CA, UNITED STATES
        Yang, Meng, San Diego, CA, UNITED STATES
PI      US 2003077823      A1   20030424
AI      US 2002-251657     A1   20020920 (10)
PRAI    US 2001-323963P     20010920 (60)
DT      Utility
FS      APPLICATION
LN.CNT 820
INCL    INCLM: 435/366.000
NCL     NCLM:  435/366.000
IC      [7]
        ICM: C12N005-08

L5    ANSWER 52 OF 269  USPATFULL on STN
AN      2003:86333  USPATFULL
TI      Trans-differentiation and re-differentiation of somatic cells and
        production of cells for cell therapies
IN      Page, Raymond, Southbridge, MA, UNITED STATES
        Dominko, Tanja, Southbridge, MA, UNITED STATES
        Malcuit, Christopher, Hudson, MA, UNITED STATES
PI      US 2003059939      A1   20030327
AI      US 2002-228296     A1   20020827 (10)
PRAI    US 2001-314654P     20010827 (60)
DT      Utility
FS      APPLICATION
LN.CNT 1215
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       INCLS: 435/368.000; 435/372.000
NCL    NCLM:  435/366.000
       NCLS:  435/368.000; 435/372.000
IC     [7]
       ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 53 OF 269  USPATFULL on STN
AN     2003:79048  USPATFULL
TI     Methods and compositions for the repair and/or regeneration of damaged
       myocardium
IN     Anversa, Piero, New York, NY, UNITED STATES
PI     US 2003054973      A1   20030320
AI     US 2002-162796     A1   20020605 (10)
RLI    Continuation-in-part of Ser. No. US 2001-919732, filed on 31 Jul 2001,
       PENDING
PRAI   US 2001-295807P     20010606 (60)
       US 2001-295806P     20010606 (60)
       US 2001-295805P     20010606 (60)
       US 2001-295804P     20010606 (60)
       US 2001-295803P     20010606 (60)
DT     Utility
FS     APPLICATION
LN.CNT 3875
INCL   INCLM: 514/001.000
       INCLS: 435/372.000
NCL    NCLM:  514/001.000
       NCLS:  435/372.000
IC     [7]
       ICM: A61K031-00
       ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 54 OF 269  USPATFULL on STN
AN     2003:71552  USPATFULL
TI     In vitro and in vivo proliferation and use of multipotent neural stem
       cells and their progeny
IN     Weiss, Samuel, Alberta, CANADA
       Reynolds, Brent, Alberta, CANADA
       Hammang, Joseph P., Barrington, RI, UNITED STATES
       Baetge, E. Edward, Barrington, RI, UNITED STATES
PI     US 2003049837      A1   20030313
AI     US 2001-925911     A1   20010809 (9)
RLI    Continuation of Ser. No. US 1995-484203, filed on 7 Jun 1995, GRANTED,
       Pat. No. US 6399369 Continuation-in-part of Ser. No. US 1994-270412,
       filed on 5 Jul 1994, ABANDONED Continuation of Ser. No. US 1991-726812,
       filed on 8 Jul 1991, ABANDONED Continuation of Ser. No. US 1995-385404,
       filed on 7 Feb 1995, ABANDONED Continuation of Ser. No. US 1992-961813,
       filed on 16 Oct 1992, ABANDONED Continuation-in-part of Ser. No. US
       1991-726812, filed on 8 Jul 1991, ABANDONED Continuation-in-part of Ser.
       No. US 1994-359945, filed on 20 Dec 1994, ABANDONED Continuation of Ser.
       No. US 1994-221655, filed on 1 Apr 1994, ABANDONED Continuation of Ser.
       No. US 1992-967622, filed on 28 Oct 1992, ABANDONED Continuation-in-part
       of Ser. No. US 1991-726812, filed on 8 Jul 1991, ABANDONED
       Continuation-in-part of Ser. No. US 1995-376062, filed on 20 Jan 1995,
       ABANDONED Continuation of Ser. No. US 1993-10829, filed on 29 Jan 1993,
       ABANDONED Continuation-in-part of Ser. No. US 1991-726812, filed on 8
       Jul 1991, ABANDONED Continuation-in-part of Ser. No. US 1993-149508,
       filed on 9 Nov 1993, ABANDONED Continuation-in-part of Ser. No. US
       1991-726812, filed on 8 Jul 1991, ABANDONED Continuation-in-part of Ser.
       No. US 1994-311099, filed on 23 Sep 1994, ABANDONED Continuation-in-part
       of Ser. No. US 1991-726812, filed on 8 Jul 1991, ABANDONED
       Continuation-in-part of Ser. No. US 1994-338730, filed on 14 Nov 1994,
       ABANDONED Continuation-in-part of Ser. No. US 1991-726812, filed on 8
       Jul 1991, ABANDONED
DT     Utility
FS     APPLICATION
LN.CNT 4025
INCL   INCLM: 435/368.000
       INCLS: 435/384.000
NCL    NCLM:  435/368.000
       NCLS:  435/384.000
IC     [7]
       ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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L5   ANSWER 55 OF 269  USPATFULL on STN
AN      2003:70949  USPATFULL
TI      DISCOVERY, LOCALIZATION, HARVEST, AND PROPAGATION OF AN FGF2 AND
        BDNF-RESPONSIVE POPULATION OF NEURAL AND NEURONAL PROGENITOR CELLS IN
        THE ADULT HUMAN FOREBRAIN
IN      GOLDMAN, STEVEN A., SOUTH SALEM, NY, UNITED STATES
        NEDERGAARD, MAIKEN, SOUTH SALEM, NY, UNITED STATES
PI      US 2003049234       A1   20030313
AI      US 1999-271969      A1   19990318 (9)
PRAI    US 1998-79226P       19980325 (60)
DT      Utility
FS      APPLICATION
LN.CNT 1534
INCL    INCLM: 424/093.210
        INCLS: 435/368.000
NCL     NCLM:  424/093.210
        NCLS:  435/368.000
IC      [7]
        ICM: A61K048-00
        ICS: C12N005-08

L5   ANSWER 56 OF 269  USPATFULL on STN
AN      2003:57546  USPATFULL
TI      Differentiated cells suitable for human therapy
IN      Gold, Joseph D., San Francisco, CA, UNITED STATES
        Lebkowski, Jane S., Portola Valley, CA, UNITED STATES
PI      US 2003040111       A1   20030227
AI      US 2002-141220      A1   20020507 (10)
RLI     Division of Ser. No. US 2001-783203, filed on 13 Feb 2001, PENDING
        Continuation of Ser. No. WO 2001-US44309, filed on 26 Nov 2001, UNKNOWN
PRAI    US 2000-253443P      20001127 (60)
        US 2000-253357P      20001127 (60)
DT      Utility
FS      APPLICATION
LN.CNT 3280
INCL    INCLM: 435/368.000
        INCLS: 435/370.000; 435/366.000
NCL     NCLM:  435/368.000
        NCLS:  435/370.000; 435/366.000
IC      [7]
        ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 57 OF 269  USPATFULL on STN
AN      2003:44877  USPATFULL
TI      Selective antibody targeting of undifferentiated stem cells
IN      McWhir, Jim, Midlothian, UNITED KINGDOM
        Gold, Joseph D., San Francisco, CA, UNITED STATES
        Schiff, J. Michael, Menlo Park, CA, UNITED STATES
PI      US 2003032187       A1   20030213
AI      US 2001-995419      A1   20011126 (9)
PRAI    US 2000-253357P      20001127 (60)
        US 2000-253443P      20001127 (60)
        US 2000-253395P      20001127 (60)
DT      Utility
FS      APPLICATION
LN.CNT 4177
INCL    INCLM: 435/455.000
        INCLS: 435/366.000
NCL     NCLM:  435/455.000
        NCLS:  435/366.000
IC      [7]
        ICM: C12N015-87
        ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 58 OF 269  USPATFULL on STN
AN      2003:44871  USPATFULL
TI      Production of radial glial cells
IN      Weiss, Samuel, Calgary, CANADA
        Gregg, Christopher, Calgary, CANADA
PA      Stem Cell Therapeutics Inc., Calgary, AB, CANADA (non-U.S. corporation)
PI      US 2003032181       A1   20030213
AI      US 2002-196549      A1   20020717 (10)
PRAI    CA 2001-2364095      20011130
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DT      Utility
FS      APPLICATION
LN.CNT 1123
INCL    INCLM: 435/368.000
NCL     NCLM:  435/368.000
IC      [7]
        ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 59 OF 269  USPATFULL on STN
AN      2003:44341  USPATFULL
TI      Methods and reagents for cell transplantation
IN      Lee, Ike W., Norwood, MA, UNITED STATES
        Liu, Guizhen, Norwood, MA, UNITED STATES
        Hampe, James, Dedham, MA, UNITED STATES
        Croissant, Jeffrey D., Scituate, MA, UNITED STATES
PI      US 2003031651       A1   20030213
AI      US 2002-121501      A1   20020412 (10)
PRAI    US 2001-283837P      20010413 (60)
        US 2001-298811P      20010615 (60)
DT      Utility
FS      APPLICATION
LN.CNT 1230
INCL    INCLM: 424/093.700
        INCLS: 435/366.000
NCL     NCLM:  424/093.700
        NCLS:  435/366.000
IC      [7]
        ICM: A61K045-00
        ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 60 OF 269  USPATFULL on STN
AN      2003:37686  USPATFULL
TI      Isolated homozygous stem cells, differentiated cells derived therefrom,
        and materials and methods for making and using same
IN      Yan, Wen Liang, Potomac, MD, UNITED STATES
        Huang, Steve Chien-Wen, Germantown, MD, UNITED STATES
        Nguyen, Minh-Thanh, Rockville, MD, UNITED STATES
        Lin, Hua, N. Potomac, MD, UNITED STATES
        Jingqi, Lei, Gaithersburg, MD, UNITED STATES
        Khanna, Ruchi, Germantown, MD, UNITED STATES
PI      US 2003027331       A1   20030206
AI      US 2002-179959      A1   20020626 (10)
RLI     Continuation-in-part of Ser. No. US 2001-997240, filed on 30 Nov 2001,
        PENDING
PRAI    US 2000-253943P      20001130 (60)
DT      Utility
FS      APPLICATION
LN.CNT 3418
INCL    INCLM: 435/366.000
NCL     NCLM:  435/366.000
IC      [7]
        ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 61 OF 269  USPATFULL on STN
AN      2003:23670  USPATFULL
TI      Encapsulated cell indicator system
IN      Lee, Ike W., Norwood, MA, UNITED STATES
        Ballica, Rabia, Framingham, MA, UNITED STATES
        Croissant, Jeffrey D., Scituate, MA, UNITED STATES
PI      US 2003017510       A1   20030123
AI      US 2002-121295      A1   20020412 (10)
PRAI    US 2001-283838P      20010413 (60)
DT      Utility
FS      APPLICATION
LN.CNT 1074
INCL    INCLM: 435/007.210
NCL     NCLM:  435/007.210
IC      [7]
        ICM: G01N033-567
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 62 OF 269  USPATFULL on STN
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TI      Method of producing region-specific neurons from human neuronal stem
        cells
IN      Wu, Ping, League City, TX, UNITED STATES
PI      US 2003013193       A1    20030116
AI      US 2002-176971      A1    20020619 (10)
PRAI    US 2001-300344P      20010622 (60)
DT      Utility
FS      APPLICATION
LN.CNT 1375
INCL    INCLM: 435/368.000
NCL     NCLM:  435/368.000
IC      [7]
        ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 63 OF 269  USPATFULL on STN
AN      2003:17440  USPATFULL
TI      Method for neural stem cell differentiation using valproate
IN      Laeng, Pascal, Washington, DC, UNITED STATES
        Mallon, Barbara, Gaithersburg, MD, UNITED STATES
        Pitts, Lee, Falls Church, VA, UNITED STATES
PA      Psychiatric Genomics, Inc. (U.S. corporation)
PI      US 2003013192       A1    20030116
AI      US 2002-175168      A1    20020618 (10)
PRAI    US 2001-299066P      20010618 (60)
DT      Utility
FS      APPLICATION
LN.CNT 1725
INCL    INCLM: 435/368.000
        INCLS: 514/557.000
NCL     NCLM:  435/368.000
        NCLS:  514/557.000
IC      [7]
        ICM: C12N005-08
        ICS: A61K031-19
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 64 OF 269  USPATFULL on STN
AN      2003:3443  USPATFULL
TI      Identifying and characterizing genes
IN      Depinho, Ronald A., Brookline, MA, UNITED STATES
        Chin, Lynda, Brookline, MA, UNITED STATES
PI      US 2003003478       A1    20030102
AI      US 2002-112503      A1    20020328 (10)
PRAI    US 2001-279506P      20010328 (60)
DT      Utility
FS      APPLICATION
LN.CNT 1891
INCL    INCLM: 435/006.000
        INCLS: 435/455.000
NCL     NCLM:  435/006.000
        NCLS:  435/455.000
IC      [7]
        ICM: C12Q001-68
        ICS: C12N015-85
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 65 OF 269  USPATFULL on STN
AN      2003:3056  USPATFULL
TI      Directed in vitro differentiation of marrow stromal cells into neural
        cell progenitors
IN      Prockop, Darwin J., New Orleans, LA, UNITED STATES
        Deng, Weiwen, Metairie, LA, UNITED STATES
PI      US 2003003090       A1    20030102
AI      US 2002-153972      A1    20020523 (10)
PRAI    US 2001-294281P      20010530 (60)
DT      Utility
FS      APPLICATION
LN.CNT 744
INCL    INCLM: 424/093.210
        INCLS: 435/368.000
NCL     NCLM:  424/093.210
        NCLS:  435/368.000
IC      [7]
        ICM: A61K048-00
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 66 OF 269  USPATFULL on STN
AN      2003:332339  USPATFULL
TI      cDNA libraries reflecting gene expression during growth and
        differentiation of human pluripotent stem cells
IN      Funk, Walter D., Hayward, CA, United States
        Carpenter, Melissa K., Foster City, CA, United States
        Gold, Joseph D., San Francisco, CA, United States
        Inokuma, Margaret S., San Jose, CA, United States
        Xu, Chunhui, Cupertino, CA, United States
PA      Geron Corporation, Menlo Park, CA, United States (U.S. corporation)
PI      US 6667176          B1   20031223
AI      US 2000-688031           20001010 (9)
PRAI    US 2000-220064P      20000721 (60)
        US 2000-216387P      20000707 (60)
        US 2000-213739P      20000622 (60)
        US 2000-213740P      20000622 (60)
        US 2000-175581P      20000111 (60)
DT      Utility
FS      GRANTED
LN.CNT 2543
INCL    INCLM: 435/363.000
        INCLS: 435/366.000; 435/377.000; 435/320.100; 536/023.100
NCL     NCLM:  435/363.000
        NCLS:  435/320.100; 435/366.000; 435/377.000; 536/023.100
IC      [7]
        ICM: C12N005-06
EXF     435/6; 435/320.1; 435/325; 435/455; 435/363; 435/366; 435/377; 536/23.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 67 OF 269  USPATFULL on STN
AN      2003:321559  USPATFULL
TI      Modified protein derived from protein kinase N
IN      Kaibuchi, Kozo, Ikoma, JAPAN
        Ono, Yoshitaka, Toyonaka, JAPAN
        Iwamatsu, Akihiro, Yokohama, JAPAN
PA      Kirin Beer Kabushiki Kaisha, Tokyo-To, JAPAN (non-U.S. corporation)
PI      US 6660837          B1   20031209
AI      US 1996-685852           19960724 (8)
PRAI    JP 1995-262552       19950914
        JP 1995-344606       19951205
        JP 1996-80549        19960308
        JP 1996-114226       19960411
DT      Utility
FS      GRANTED
LN.CNT 3868
INCL    INCLM: 530/350.000
        INCLS: 530/300.000; 514/002.000; 514/012.000; 435/194.000; 435/320.100;
               435/252.300; 435/252.330; 435/325.000; 536/023.100; 536/023.200;
               536/023.500
NCL     NCLM:  530/350.000
        NCLS:  435/194.000; 435/252.300; 435/252.330; 435/320.100; 435/325.000;
               530/300.000; 536/023.100; 536/023.200; 536/023.500
IC      [7]
        ICM: C07K014-00
        ICS: C12N009-12
EXF     435/194; 435/320.1; 435/252.3; 435/252.33; 435/325; 536/23.1; 536/23.2;
        536/23.5; 530/300; 530/350; 514/2; 514/12
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 68 OF 269  USPATFULL on STN
AN      2003:285185  USPATFULL
TI      Isolated mammalian neural stem cells, methods of making such cells
IN      Steindler, Dennis A., Memphis, TN, United States
        Laywell, Eric D., Memphis, TN, United States
        Kukekou, Valery G., Memphis, TN, United States
        Thomas, L. Brannon, Johnson City, TN, United States
PA      University of Tennessee Research Foundation, United States (U.S.
        corporation)
PI      US 6638763          B1   20031028
        WO 9830678  19980716
AI      US 1999-402227           19991001 (9)
        WO 1998-US366            19980107
PRAI    US 1997-34910P       19970107 (60)
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FS   GRANTED
LN.CNT 974
INCL   INCLM: 435/368.000
        INCLS: 435/377.000; 435/384.000; 435/325.000
NCL   NCLM: 435/368.000
        NCLS: 435/325.000; 435/377.000; 435/384.000
IC   [7]
        ICM: C12N005-08
EXF   435/325; 435/377; 435/378; 435/379; 435/383; 435/384; 435/395; 435/402;
        435/368

L5   ANSWER 69 OF 269 USPATFULL on STN
AN   2003:228269 USPATFULL
TI   Low oxygen culturing of central nervous system progenitor cells
IN   Csete, Marie, Ann Arbor, MI, United States
        Doyle, John, South Pasadena, CA, United States
        Wold, Barbara J., San Marino, CA, United States
        McKay, Ron, Bethesda, MD, United States
        Studer, Lorenz, New York, NY, United States
PA   California Institute of Technology, Pasadena, CA, United States (U.S.
        corporation)
        National Institutes of Health, Bethesda, MD, United States (U.S.
        corporation)
PI   US 6610540   B1   20030826
AI   US 1999-425462   19991022 (9)
RLI   Continuation-in-part of Ser. No. US 1998-195569, filed on 18 Nov 1998,
        now patented, Pat. No. US 6184035
DT   Utility
FS   GRANTED
LN.CNT 2398
INCL   INCLM: 435/375.000
        INCLS: 435/004.000; 435/325.000; 435/377.000; 435/352.000; 435/368.000
NCL   NCLM: 435/375.000
        NCLS: 435/004.000; 435/325.000; 435/352.000; 435/368.000; 435/377.000
IC   [7]
        ICM: C12N005-00
        ICS: C12N005-02; C12N005-06; C12N005-08
EXF   435/4; 435/325; 435/352; 435/366; 435/368; 435/375; 435/377; 435/363;
        435/383; 530/350; 530/300
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 70 OF 269 USPATFULL on STN
AN   2003:129825 USPATFULL
TI   Differentiation of human embryonic germ cells
IN   Gearhart, John D., Baltimore, MD, United States
        Shamblott, Michael Joseph, Baltimore, MD, United States
PA   The Johns Hopkins University School of Medicine, Baltimore, MD, United
        States (U.S. corporation)
PI   US 6562619   B1   20030513
AI   US 2000-553640   20000420 (9)
RLI   Continuation of Ser. No. US 1998-52772, filed on 31 Mar 1998, now
        patented, Pat. No. US 6245566 Continuation-in-part of Ser. No. US
        1997-989744, filed on 12 Dec 1997, now patented, Pat. No. US 6331406
        Continuation-in-part of Ser. No. US 1997-829372, filed on 31 Mar 1997,
        now patented, Pat. No. US 6090622
DT   Utility
FS   GRANTED
LN.CNT 1983
INCL   INCLM: 435/366.000
        INCLS: 435/325.000; 424/093.210
NCL   NCLM: 435/366.000
        NCLS: 424/093.210; 435/325.000
IC   [7]
        ICM: C12N005-08
EXF   435/325; 435/366; 435/440; 435/455; 800/8
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 71 OF 269 USPATFULL on STN
AN   2003:89280 USPATFULL
TI   Method of isolating ependymal neural stem cells
IN   Frisen, Jonas, Stockholm, SWEDEN
        Janson, Ann Marie, Stockholm, SWEDEN
        Johansson, Clas, Stockholm, SWEDEN
        Momma, Stefan, Sp.ang.nga, SWEDEN
        Clarke, Diana, Stockholm, SWEDEN

Lendahl, Urban, Sundbyberg, SWEDEN
Delfani, Kioumars, Solna, SWEDEN
PA Neuronova AB, Stockholm, SWEDEN (non-U.S. corporation)
PI US 6541247 B1 20030401
AI US 1998-104772 19980625 (9)
DT Utility
FS GRANTED
LN.CNT 1146
INCL INCLM: 435/325.000
INCLS: 435/007.100; 435/007.200; 435/007.210; 435/353.000; 435/354.000; 435/366.000; 435/368.000
NCL NCLM: 435/325.000
NCLS: 435/007.100; 435/007.200; 435/007.210; 435/353.000; 435/354.000; 435/366.000; 435/368.000
IC [7]
ICM: C12N005-00
ICS: C12N005-02; C12N005-06; G01N033-53; G01N033-567
EXF 435/325; 435/352; 435/353; 435/354; 435/366; 435/368; 435/455; 435/7.1; 435/7.2

L5 ANSWER 72 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 16
AN 2003:400731 BIOSIS
DN PREV200300400731
TI Aberrant growth and differentiation of oligodendrocyte progenitors in neurofibromatosis type 1 mutants.
AU Bennett, Michael R.; Rizvi, Tilat A.; Karyala, Saikumar; McKinnon, Randall D.; Ratner, Nancy [Reprint Author]
CS Department of Cell Biology, Neurobiology, and Anatomy, College of Medicine, University of Cincinnati, 3125 Eden Avenue, Cincinnati, OH, 45267-0521, USA
nancy.ratner@uc.edu
SO Journal of Neuroscience, (August 6 2003) Vol. 23, No. 18, pp. 7207-7217. print.
ISSN: 0270-6474 (ISSN print).
DT Article
LA English
ED Entered STN: 3 Sep 2003
Last Updated on STN: 3 Sep 2003

L5 ANSWER 73 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 17
AN 2003:287630 BIOSIS
DN PREV200300287630
TI Differentiation of monkey embryonic stem cells into neural lineages.
AU Kuo, Hung-Chih; Pau, K.-Y. Francis; Yeoman, Richard R.; Mitalipov, Shoukhrat M.; Okano, Hideyuki; Wolf, Don P. [Reprint Author]
CS Oregon National Primate Research Center, 505 NW 185th Avenue, Beaverton, OR, 97006, USA
wolfd@ohsu.edu
SO Biology of Reproduction, (May 2003) Vol. 68, No. 5, pp. 1727-1735. print.
CODEN: BIREBV. ISSN: 0006-3363.
DT Article
LA English
ED Entered STN: 19 Jun 2003
Last Updated on STN: 19 Jun 2003

L5 ANSWER 74 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 18
AN 2003:119580 BIOSIS
DN PREV200300119580
TI Locally born olfactory bulb stem cells proliferate in response to insulin-related factors and require endogenous insulin-like growth factor-I for differentiation into neurons and glia.
AU Vicario-Abejon, Carlos [Reprint Author]; Yusta-Boyo, Maria J.; Fernandez-Moreno, Carmen; de Pablo, Flora
CS Centro de Investigaciones Biologicas, CSIC, Velazquez 144, E-28006, Madrid, Spain
cvicario@cib.csic.es
SO Journal of Neuroscience, (February 1 2003) Vol. 23, No. 3, pp. 895-906. print.
ISSN: 0270-6474 (ISSN print).
DT Article
LA English
ED Entered STN: 5 Mar 2003

L5 ANSWER 75 OF 269 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:211630 CAPLUS
DN 138:396613
TI Neurotrophins facilitate neuronal differentiation of cultured neural stem cells via induction of mRNA expression of basic helix-loop-helix transcription factors Mash1 and Math1
AU Ito, Hisanori; Nakajima, Aki; Nomoto, Hiroshi; Furukawa, Shoei
CS Laboratory of Molecular Biology, Gifu Pharmaceutical University, Gifu, 502-8585, Japan
SO Journal of Neuroscience Research (2003), 71(5), 648-658
CODEN: JNREDK; ISSN: 0360-4012
PB Wiley-Liss, Inc.
DT Journal
LA English
RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 76 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:532692 BIOSIS
DN PREV200300535744
TI Tales of transdifferentiation.
AU Jin, Kunlin; Greenberg, David A. [Reprint Author]
CS Buck Institute for Age Research, 8001 Redwood Boulevard, Novato, CA, 94945, USA
dgreenberg@buckinstitute.org
SO Experimental Neurology, (October 2003) Vol. 183, No. 2, pp. 255-257. print.
CODEN: EXNEAC. ISSN: 0014-4886.
DT Article
LA English
ED Entered STN: 12 Nov 2003
Last Updated on STN: 12 Nov 2003

L5 ANSWER 77 OF 269 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:415190 CAPLUS
DN 139:212169
TI Inhibition of endogenous VEGF impedes revascularization and astroglial proliferation: roles for VEGF in brain repair
AU Krum, Janette M.; Khaibullina, Alfia
CS Department of Anatomy and Cell Biology, George Washington University Medical Center, Washington, DC, 20037, USA
SO Experimental Neurology (2003), 181(2), 241-257
CODEN: EXNEAC; ISSN: 0014-4886
PB Elsevier Science
DT Journal
LA English
RE.CNT 93 THERE ARE 93 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 78 OF 269 MEDLINE on STN
AN 2003137180 MEDLINE
DN PubMed ID: 12652649
TI ***EGF*** -responsive rat neural stem cells: molecular follow-up of neuron and astrocyte differentiation in vitro.
AU Jori F P; Galderisi U; Piegari E; Cipollaro M; Cascino A; Peluso G; Cotrufo R; Giordano A; Melone M A B
CS Department of Neurological Sciences, Second University of Naples, Naples, Italy.
SO Journal of cellular physiology, (2003 May) 195 (2) 220-33.
Journal code: 0050222. ISSN: 0021-9541.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200305
ED Entered STN: 20030325
Last Updated on STN: 20030531
Entered Medline: 20030530

L5 ANSWER 79 OF 269 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:973646 CAPLUS
TI Effects of T3 on differentiation of human neural stem cells to oligodendrocyte
AU Liu, Ben; Li, Lanying; Liu, Chunrong; Pang, Zhiling

Peop. Rep. China
SO Jiepou Xuebao (2003), 34(2), 213-216
CODEN: CPHPA5; ISSN: 0529-1356
PB Jiepou Xuebao Bianji Weiyuanhui
DT Journal
LA Chinese

L5 ANSWER 80 OF 269 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:673295 CAPLUS
DN 139:302699
TI Generation of cloned calves and transgenic chimeric embryos from bovine embryonic stem-like cells
AU Saito, Shigeo; Sawai, Ken; Ugai, Hideyo; Moriyasu, Satoru; Minamihashi, Akira; Yamamoto, Yusuke; Hirayama, Hiroki; Kageyama, Soichi; Pan, Jianzhi; Murata, Takehide; Kobayashi, Yoshiro; Obata, Yuichi; Yokoyama, Kazunari K.
CS Saito Laboratory of Cell Technology, Yaita, Tochigi, 329-1571, Japan
SO Biochemical and Biophysical Research Communications (2003), 309(1), 104-113
CODEN: BBRCA9; ISSN: 0006-291X
PB Elsevier Science
DT Journal
LA English
RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 81 OF 269 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:463607 CAPLUS
DN 139:208169
TI Effect of cytokines on proliferation and differentiation of neural stem cells
AU Zhang, Wenzhi; Su, Xin; Qin, Jinxi; Kong, Fanming; Kong, Jianguo; Wang, Xinping; Zhi, Dashi
CS Department of Pathology, Tianjin Huanhu Hospital, Tianjin, 300060, Peop. Rep. China
SO Linchuang Yu Shiyan Binglixue Zazhi (2003), 19(1), 77-81
CODEN: LYSBAA; ISSN: 1001-7399
PB Linchuang Yu Shiyan Binglixue Zazhi Bianjibu
DT Journal
LA Chinese

L5 ANSWER 82 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:528897 BIOSIS
DN PREV200300524702
TI ISOLATION, CHARACTERIZATION AND EXPANSION OF PORCINE RETINAL PROGENITOR CELLS.
AU Shatos, M. A. [Reprint Author]; Klassen, H.; Scherfig, E.; Kiilgaard, J. F.; Warfvinge, K.; Prause, J. U.; Young, M. J. [Reprint Author]
CS Schepens Eye Research Institute, Boston, MA, USA
SO ARVO Annual Meeting Abstract Search and Program Planner, (2003) Vol. 2003, pp. Abstract No. 1694. cd-rom.
Meeting Info.: Annual Meeting of the Association for Research in Vision and Ophthalmology. Fort Lauderdale, FL, USA. May 04-08, 2003. Association for Research in Vision and Ophthalmology.
DT Conference; (Meeting)
Conference; (Meeting Poster)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 12 Nov 2003
Last Updated on STN: 12 Nov 2003

L5 ANSWER 83 OF 269 TOXCENTER COPYRIGHT 2004 ACS on STN
AN 2004:19730 TOXCENTER
DN DART-TER-3001508
TI Analysis of mouse cytomegalovirus susceptibility in brain slices.
AU Kawasaki H; Kosugi I; Baba S; Tsuchida T; Li R Y; Arai Y; Furuta K; Ishiwata M; Tsutsui Y
CS 2nd Department of Pathology, Hamamatsu University School of Medicine, Shizuoka, Japan.
SO Congenit Anom Kyoto, (2002 Sep) 42 (3) 246.
ISSN: 0914-3505.
DT Abstract; (MEETING ABSTRACT)
FS DART
LA English
ED Entered STN: 20040203
Last Updated on STN: 20040203

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L5    ANSWER 84 OF 269  TOXCENTER COPYRIGHT 2004 ACS on STN
AN    2004:19687  TOXCENTER
DN    DART-TER-3001465
TI    Mechanisms of developing brain disorders induced by cytomegalovirus.
AU    Tsutsui Y
CS    Second Department of Pathology, Hamamatsu University School of Medicine,
      Hamamatsu, Shizuoka, Japan.
SO    Congenit Anom Kyoto, (2002 Sep) 42 (3) 228-30.
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DT    Abstract; (MEETING ABSTRACT)
FS    DART
LA    English
ED    Entered STN: 20040203
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L5     ANSWER 85 OF 269  BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN     2002-14142  BIOTECHDS
TI     Cellular composition useful for transplantation purposes, comprises a
       population of multipotent mammalian cells that are self-renewing, and
       capable of forming non-adherent clusters in culture;
          genetically modified stem cell differentiation and epithelium tissue
          culture for disease therapy and tissue engineering
AU     TOMA J; AKHAVAN M; FERNANDES K J L; FORTIER M; MILLER F
PA     TOMA J; AKHAVAN M; FERNANDES K J L; FORTIER M; MILLER F
PI     US 2002016002 7 Feb 2002
AI     US 2000-916639 24 Jan 2000
PRAI   US 2001-916639 26 Jul 2001
DT     Patent
LA     English
OS     WPI: 2002-239226 [29]

L5     ANSWER 86 OF 269  CAPLUS  COPYRIGHT 2004 ACS on STN DUPLICATE 20
AN     2002:674692  CAPLUS
DN     137:181930
TI     Multipotent stem cells from peripheral tissues and uses thereof
IN     Toma, Jean; Akhavan, Mahnaz; Fernandes, Karl J. L.; Fortier, Mathieu;
       Miller, Freda
PA     Can.
SO     U.S. Pat. Appl. Publ., 48 pp., Cont.-in-part of U.S. Ser. No. 916,639.
       CODEN: USXXCO
DT     Patent
LA     English
FAN.CNT 6
       PATENT NO.         KIND  DATE            APPLICATION NO.   DATE
       ---------------    ----  --------        ---------------   --------
PI     US 2002123143       A1   20020905        US 2001-991480    20011109
       WO 2001053461       A1   20010726        WO 2001-CA47      20010124
           W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
               CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
               HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
               LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
               SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
               YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
           RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
               DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
               BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
       US 2002016002       A1   20020207        US 2001-916639    20010726
       US 2003003574       A1   20030102        US 2002-99539     20020315
       WO 2003010243       A2   20030206        WO 2002-CA1130    20020726
       WO 2003010243       A3   20030731
           W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
               CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
               GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
               LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
               PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
               UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
               TJ, TM
           RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
               CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
               PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
               NE, SN, TD, TG
PRAI   US 1997-920272      A2   19970822
       US 2000-490422      B2   20000124
       US 2000-670049      A2   20000925
       WO 2001-CA47        A2   20010124
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US 2001-991480 A2 20011109
US 2002-99539 A 20020315

L5 ANSWER 87 OF 269 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 21
AN 10221084 IFIPAT;IFIUDB;IFICDB
TI PRIMITIVE NEURAL STEM CELLS AND METHOD FOR DIFFERENTIATION OF STEM CELLS TO NEURAL CELLS
IN Tropepe Vincent; Van Der Kooy Derek (CA)
PA Unassigned Or Assigned To Individual (68000)
PI US 2002164791 A1 20021107
AI US 2001-966768 20010928
PRAI US 2000-236394P 20000929 (Provisional)
FI US 2002164791 20021107
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 46
GI 20 Figure(s).

FIG. 1A is a graph showing the neural sphere colony forming ability of embryonic stem (ES) cells cultured at 20 cells/ul in chemically defined serum free media in the presence of various cytokines and growth factors and combinations thereof. The inset shows a light microscope photograph of an ES cell derived neural colony after 7 days in culture.

FIG. 1B is a graph showing limiting dilution analysis of the frequency of neural sphere colony formation from ES cells in the presence of LIF.

FIG. 1C shows inverted fluorecence microscope photographs of differentiated ES-cell derived sphere colonies, immunocytochemically labelled for the neural precursor marker ***nestin*** after 3 or 7 days in vitro.

FIG. 1D is a graph showing the secondary, tertiary and quaternary neural stem cell colony forming ability of cells dissociated from primary neural colonies and cultured in the presence of exogenous LIF, FGF2 and B27.

FIG. 2A shows inverted fluorescence microscope photographs of differentiated ES cell-derived sphere colonies, immunocytochemically labelled for neural cell-specific genes NAP2 (neurons), ***GFAP*** (astrocytes and O4 (oligodendrocytes).

FIG. 2B shows RT-PCR analysis of neural and non-neural lineage gene expression in RNA extracted from primary ES cells (R1). ES cell-derived sphere colonies (SC), and positive control tissue samples (+). Listed are the Emx2, HoxB1, Six3 and Otx1 markers for neural differentiation. Brachyury marker for mesoderm differentiation, GATA4 and HNF4 markers for endoderm differentiation, and CK-17 for epidermal differentiation.

FIG. 3A is a graph showing the neural colony forming ability of ES cells with a homozygous null mutation (FGFR-1(-/-)) in the gene encoding ***FGF*** -receptor-1, or control heterozygous ES cells (FGFR-1(+/-)).

FIG. 3B is a graph showing the neural colony forming ability of ES cells cultured in the presence of anti-FGF2 antibodies.

FIG. 3C is a graph showing the neural colony forming ability of neural stem cells isolated from the day E9.5 forebrain and cultured in the presence of LIF and FGF2.

FIG. 4A is a graph showing the neural colony forming ability of ES cells cultured in the presence of LIF and FGF2 alone or in the presence of BMP4.

FIG. 4B is a graph showing the neural colony forming ability of ES cells cultured in the presence of LIF and FGF2 alone or in the presence of LIF and FGF2 and the BMP protein antagonist Noggin.

FIG. 4C is a graph showing the neural colony forming ability of Smad4(-/-) and wildtype E14K ES cells.

FIG. 4D is a graph showing the neural colony forming ability of ES cells cultured in the presence of LIF alone or in the presence of LIF and exogenous mouse Cerberus-like (mCer-1) protein.

FIG. 5A is a table showing the proportion of ES cells cultured at low cell density that were immunoreactive or the neural precursor marker ***nestin*** , the immature neuronal marke beta IIItubulin, the marker NeuN, and ICM/ES cell nuclear marker Oct-4. The photographs at left shows ES cells immunocytochemically labelled for ***nestin*** . beta III-tubulin, NeuN., and Oct-4

FIG. 5B is a graph showing the proportion of either Smad4(-/-) or control E14K wildtype ES cells immunoreactive for the immature neuronal marker beta III-tubulin. The photograph at left shows Smad4(-/-) ES cells immunocytochemically labelled for beta II-tubulin.

FIG. 6A shows an ultraviolet light microscope photograph of a chimeric day E9.5 mouse embryo generated using ES cell-derived neural colonies harbouring a yellow fluorescent protein transgene and a CD1 host morula. The inset shows a normally developed blastocyst after 24 hours in vitro

colony and a CD1 host morula.
FIG. 6B shows a light microscope photograph of a mouse blastocyst (arrow) and an unintegrated day E9.5 telencephalonderived sphere colony expressing green fluorescent protein, 24 hours after the attempted aggregation of the two.
FIG. 6C shows a light microscope photograph of the mouse embryo (arrow) developed from the blastocyst shown in FIG. 6B.
FIGS. 7A-D are photographs of well-circumscribed clusters of cells. FIGS. 7A and B depict cells which do not express ***nestin*** (arrow in A and B) that resemble typical undifferentiated ES cell colonies. These aggregated cells express the undifferentiated ES cell-specific marker SSEA-1 (arrowheads in C and D). Moreover, the relatively large cells that resemble ***nestin*** positive cells do not express SSEA-1 (arrow in C and D).
FIG. 7E is a diagram showing a model of the establishment of the early neural cell lineage from ES cells.

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TI EMBRYONIC STEM CELLS AND NEURAL PROGENITOR CELLS DERIVED THEREFROM
IN Ben-Hur Tamir (IL); Pera Martin Frederick (AU); Reubinoff Benjamin Eithan (IL)
PA Unassigned Or Assigned To Individual (68000)
PI US 2002164308 A1 20021107
AI US 2001-970543 20011004
RLI US 2001-808382 20010314 CONTINUATION-IN-PART PENDING
PRAI AU 2000-6211 20000314
AU 2000-1279 20001106
AU 2001-2920 20010206
FI US 2002164308 20021107
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 73
GI 38 Figure(s).
FIG. 1 shows phase contrast micrographs of ES cells and their differentiated progeny. A, inner cell mass three days after plating. B, colony of ES cells. C, higher magnification of an area of an ES cell colony. D, an area of an ES cell colony undergoing spontaneous differentiation during routine passage. E, a colony four days after plating in the absence of a feeder cell layer but in the presence of 2000 units/ml human LIF undergoing differentiation in its periphery,. F, neuronal cells in a high density culture. Scale bars: A and C, 25 microns; B and E, 100 microns; D and F, 50 microns.
FIG. 2 shows marker expression in ES cells and their differentiated somatic progeny. A, ES cell colony showing histochemical staining for alkaline phosphatase. B. ES cell colony stained with antibody MC-813-70 recognising the SSEA-4 epitope. C, ES cell colony stained with antibody TRAL-60. D, ES cell colony stained with antibody GCTM-2. E, high density culture, cell body and processes of a cell stained with antineurofilament 68 kDa protein. F, high density culture, cluster of cells and network of processes emanating from them stained with antibody against neural cell adhesion molecule. G, high density culture, cells showing cytoplasmic filaments stained with antibody to muscle actin. H, high density culture, cell showing cytoplasmic filaments stained with antibody to desmin. Scale bars: A, 100 microns; B-D, and F, 200 microns; E, G and H, 50 microns.
FIG. 3 shows RT-PCR analysis of gene expression in ES cells and their differentiated derivatives. All panels show 1.5% agarose gels stained with ethidium bromide. A, expression of Oct-4 and b-actin in ES stem cells and high density cultures. Lane 1, 100 bpDNA ladder. Lane 2, stem cell culture, b-actin. Lane 3, stem cell culture, Oct-4. Lane 4, stem cell culture, PCR for Oct-4 carried out with omission of reverse transcriptase. Lane 5, high density culture, b-actin. Lane 6, high density culture, Oct-4. Lane 7, high density culture, PCR for Oct-4 carried out with omission of reverse transcriptase. b-actin band is 200 bp and Oct-4 band is 320 bp. B, expression of ***nestin*** and Pax-6 in neural progenitor cells that were derived from differentiating ES colonies. Left lane, 100 bp DNA ladder; lane 1, b-actin in HX 142 neuroblastoma cell line (positive control for ***nestin*** PCR) ; lane 2, b-actin in neural progenitor cells; lane 3, ***nestin*** in HX 142 neuroblastoma cell line; lane 4, ***nestin*** in neural progenitor cells; lane 5, ***nestin*** PCR on same sample as lane 4 without addition of reverse transcriptase; lane 6, Pax-6; lane 7, Pax-6 PCR on same sample as line 6 without addition of reverse transcriptase.
Nestin band is 208 bp, Pax-6 is 274 bp, C, expression of glutamic

lane 1, b-actin; lane 2, b-actin PCR on same sample as lane 1 without addition of reverse transcriptase; lane 3, glutamic acid decarboxylase; lane 4 glutamic acid decarboxylase on same sample as lane 3 without addition of reverse transcriptase. Glutamic acid decarboxylase band is 284 bp. D, expression of GABA A alpha 2 receptor. Left lane, 100 bp DNA ladder; lane 1, b-actin; lane 2, GABA A alpha 2 receptor; lane 3, PCR without addition of reverse transcriptase. GABA A alpha 2 receptor subunit band is 471 bp.

FIG. 4 shows histology of differentiated elements found in teratomas formed in the testis of SCID mice following inoculation of HES-1 or HES-2 colonies. A, cartilage and squamous epithelium, HES-2. B, neural rosettes, HES-2. C, ganglion, gland and striated muscle, HES-1. D, bone and cartilage, HES-1. E, glandular epithelium, HES-1. F, ciliated columnar epithelium, HES-1. Scale bars: A-E, 100 microns; F, 50 microns.

FIG. 5 shows phase contrast microscopy and immunochemical analysis of marker expression in neural progenitor cells isolated from differentiating ES cultures. A, phase contrast image of a sphere formed in serum-free medium. B-D, indirect immunofluorescence staining of spheres, 4 hours after plating on adhesive substrate, for N-CAM, ***nestin*** , and vimentin respectively. In C and D, cells at the base of the sphere were placed in plane of focus to illustrate filamentous staining; confocal examination revealed that cells throughout the sphere were decorated by both antibodies. Scale bar is 100 microns in all panels.

FIG. 6 shows phase contrast appearance and marker expression in cultures of neurons derived from progenitor cells shown in FIG. 5. A, phase contrast micrograph of differentiated cells emanating from a sphere plated onto adhesive surface. B-H, indirect immunofluorescence microscopy of differentiated cells decorated with antibodies against 200 kDa neruofilament protein (B), 160 kDa neurofilament protein (C), MAP2a+b (D), glutamate (E), synaptophysin (F), glutamic acid decarboxylase (G) and beta-tubulin (H). Scale bars: A, ;B, 100 microns; C, 200mircons; D, 20 microns; E and F, 10 microns; G, 20 microns; H, 25 microns.

FIG. 7 shows neural precursors proliferating as a monolayer on a plastic tissue culture dish in the presence of ***EGF*** and bFGF. These monolayer cultures of proliferating cells were obtained after prolonged cultivation (2-3 weeks) of the spheres in the presence of growth factors without sub-culturing.

FIG. 8 shows phase contrast appearance of a culture consisting of differentiated neural cells.

FIG. 9 shows phase contrast appearance of a sphere that is formed 72 hours after the transfer of a clump of undifferentiated ES cells into serum free medium (Scale bar 100 microns).

FIG. 10 shows linear correlation between the volume of spheres and the number of progenitor cells within a sphere. Spheres of various diameters that were generated from differentiating ES colonies and were propagated for 14-15 weeks were dissaggregated into single cell suspension and the number of cells per sphere was counted.

FIG. 11 shows indirect immunofluorescence staining of a sphere, 4 hours after plating on adhesive substrate, for N-CAM. The sphere was generated by direct transfer of undifferentiated ES cells into serum free medium and propagation of the resulting spheres for 5 passages. (Scale bar 100 microns).

FIG. 12 shows indirect immunofluorescence membraneous staining for N-CAM of single cells at the periphery of a sphere 4 hours after plating on adhesive substrate. The sphere was generated by direct transfer of undifferentiated ES cells into serum free medium and propagation of the resulting spheres for 5 passages. (Scale bar 25 microns).

FIG. 13 shows indirect immunofluorescence staining of a spheres 4 hours after plating on adhesive substrate for the intermediate filament ***nestin*** . Cells at the base of the sphere were placed in plane of focus to illustrate filamentous staining. The sphere was generated by direct transfer of undifferentiated ES cells into serum free medium and propagation of resulting spheres for 5 passages. (Scale bar 25 microns).

FIG. 14 shows indirect immunofluorescence microscopy of a differentiated cell decorated with antibodies against the oligodendrocyte progenitor marker O4. (Scale bar 12.5 microns).

FIG. 15 shows indirect immunofluorescence staining of a sphere 4 hours after plating on adhesive substrate for the intermediate filament vimentin. Cells at the base of the sphere were placed in plane of focus to illustrate filamentous staining. The sphere was generated by direct transfer of undifferentiated ES cells into serum free medium and propagation of resulting spheres for 7 passages. (Scale bar 25 microns).

FIG. 16 shows the growth pattern of spheres that were generated directly from undifferentiated ES cells. Each bar represents the mean (+-SD)

after derivation. A more excessive growth rate is evident during the first 5 weeks.

FIG. 17 shows persistent growth in the volume of spheres along time. Each bar represents the mean (+-SD) increment in volume per week of 24 spheres at nine to twenty one weeks after derivation. The spheres were generated from differentiating ES colonies.

FIG. 18 shows linear correlation between the volume of spheres and the number of progenitor cells within a sphere. Spheres of various diameters, that were generated directly from undifferentiated ES cells and were propagated 5-7 weeks, were dissaggregated into single cell suspension and the number of cells per sphere was counted.

FIG. 19 shows RT-PCR analysis of gene expression in ES cells (a week after passage) and neural spheres derived from differentiating colonies and directly from undifferentiated ES cell. All panels show 2% agarose gels stained with ethidium bromide. Lanes 1, 2 and 3, Oct-4 in ES cell culture, neural spheres derived from differentiating colonies, neural spheres derived from undifferentiated ES cells. Lane 4, stem cell culture, PCR for Oct-4 carried out with omission of reverse transcriptase. Lanes 5, 6, and 7, ***nestin*** in ES cell culture, neural spheres derived from differentiating colonies, neural spheres derived from undifferentiated ES cells. Lane 8, stem cell culture, PCR for ***nestin*** carried out with omission of reverse transcriptase. Lanes 9, 10 and 11, Pax-6 in ES cell culture, neural spheres derived from differentiating colonies, neural spheres derived from undifferentiated ES cells. Lane 12, stem cell culture, PCR for Pax-6 carried out with omission of reverse transcriptase. Lane 13, 100 bp DNA ladder. Oct-4 band is 320 bp, ***nestin*** is 208 bp and Pax-6 is 274 bp.

FIG. 20 shows indirect immunofluorescence microscopy of differentiated astrocyte cells decorated with antibody against ***GFAP*** . (Scale bar 25 microns).

FIG. 21 shows indirect immunofluorescence microscopy of brain sections of two mice (A and B) 4 weeks after transplantation of human neural precursors prelabeled with BrDU. Cells with a nucleus decorated with anti BrDU (brown stain, black arrow) are evident near the ventricular surface (white arrow indicate mouse unstained nuclei, bar=20 microns).

FIG. 22 shows indirect immunofluorescence microscopy of brain sections of a mice 4 weeks after transplantation of human neural precursors prelabeled with BrDU. Wide spread distribution of transplanted human cells decorated by anti BrDU antibodies is evident in the periventricular areas. The periventricular area in A is demonstrated at a higher magnification in B and C. (Bars=150, 60 and 30 microns in A, B and C).

FIG. 23 shows indirect immunocytochemical microscopy of brain sections of a mice 4 weeks after transplantation of human neural precursors prelabeled with BrDU. The transplanted human cells are migrating along the rostral migratory stream (bar=150 microns).

FIG. 24 shows RT-PCR analysis of gene expression in neural spheres derived from differentiating (A) and undifferentiated (B) ES cells. All panels show 2% agarose gels stained with ethidium bromide. Lanes 1 and 10, 100 bpDNA ladder; Lane 2, CD34; Lane 3, Flk-1; lane4, HNF-3; lane 5, alfafetoprotein. Lanes 6-9 PCR reaction on the same samples as lanes 2-5 carried out with the omission of reverse transcriptase. CD-34 band is 200 bp, Flk-1 is 199, HNF-3 is 390, AFP is 340 bp.

FIG. 25 shows by RT-PCR analysis the expression of ***GFAP*** and the pip gene in differentiated cells from neural spheres derived from differentiating ES cell colonies. The expression of ***GFAP*** indicates differentiation into astrocytes while the presence of both dm-20 and pip transcripts indicate that differentiation into oligodendrocyte cells has occurred. Lanes 2, 4, 6 and lanes 3, 5, 7 are from two separate RNA samples from differentiated spheres that were independently derived from ES cells. Lane 1 and 8, 100 bp DNA ladder; Lanes 2 and 4, ***GFAP*** ; lanes 3 and 5, plp and dm-20; lanes 6 and 7, PCR reaction on the same samples as lanes 3 and 5 carried out with the omission of reverse transcriptase. ***GFAP*** band is 383, pip band is 354 bp and dm-20 is 249 bp.

FIG. 26 shows a dark field stereomicroscopic photograph of areas (arrows) destined to give rise to neural precursors in a differentiating ES cell colony 3 weeks after passage (bar=1.6 mm).

FIG. 27 shows indirect immunochemical analysis of marker expression in cultures of neurons derived from progenitor cells that were derived directly from undifferentiated ES cells: A, indirect immunofluorescence microscopy of neurits decorated with antibody against 160 kDa neurofilament protein. B and C, indirect immunofluorescence staining of differentiated cells for MAP2a+b and beta-tubulin III. Scale bars: A 100 microns, B and C 10 microns.

FIG. 28 shows indirect immunochemical analysis of the expression of

decorated with antibodies against tyrosine hydroxylase. Scale bars: 30 microns.

FIG. 29 shows in vivo differentiation into astrocyte cells of transplanted human neural progenitors prelabeled with BrDU. Donor cells are identified by indirect immunochemical detection of BrDU (dark nuclei, arrows). Duel staining demonstrates donor cells decorated by anti ***GFAP*** (orange). Transplanted cells are migrating into the brain parenchyma (white arrow) and are also found in the periventricular zone (dark arrow) (A), A higher magnification of cells that have differentiated into astrocytes and migrated into the host brain (B).

FIG. 30 shows in vivo differentiation into oligodendrocyte cells of transplanted human neural progenitors prelabeled with BrDU. Donor cells are identified by indirect immunochemical detection of BrDU (dark nuclei, arrows). Duel staining demonstrates donor cells decorated by anti CNPase (orange).

FIG. 31 shows cumulative growth curve for human neural progenitors derived from differentiating colonies. (A) Continuous growth is evident during an 18-22 week period. The increment in the volume of the spheres was continuously monitored as an indirect measure of the increase in cell numbers. A linear positive correlation between the volume of the spheres and the number of cells within the spheres (B, insert) was maintained along cultivation. It supported the validity of monitoring the increment of sphere volume as an indirect indicator of cell proliferation.

FIG. 32 shows RT-PCR analysis of the expression of non-neural markers in human ES derived spheres. All panels show 2% agarose gels stained with ethidium bromide. The symbols + and indicate whether the PCR reaction was performed with or without the addition of reverse transcriptase. A 1 Kb plus DNA ladder was used in all panels. beta-actin band is 291 bp, keratin is 780 bp, Flk-1 is 199 bp, CD34 is 200 bp, AC-133 is 200 bp, transferin is 367 bp, amylase is 490 bp and alpha 1 anti trypsin is 360 bp.

FIG. 33 shows a phase contrast micrograph of differentiated cells growing out from a sphere 2 weeks after plating onto an adhesive surface and culture in the absence of growth factors. Scale bar is 200 mu m.

FIG. 34 shows RT-PCR analysis of the expression of neuronal and glial markers in differentiated cells originating from human ES derived neural spheres. All panels show 2% agarose gels stained with ethidium bromide. The symbols + and -indicate whether the PCR reaction was performed with or without the addition of reverse transcriptase. A 1 Kb plus DNA ladder was used in all panels. Plp and dm-20 bands are 354 bp and 249 bp respectively, MBP is 379 bp, ***GFAP*** is 383 bp, NSE is 254 bp and NF-M is 430 bp.

FIG. 35 shows indirect immunochemical analysis of the expression of serotonin (A) and GABA (B). Scale bars are 20 mu m.

FIG. 36 shows dissemination of transplanted BrdU+ human ESderived neural progenitor cells in the mouse host brain.

(A) At 2 days after transplantation most cells were found lining the ventricular wall. (B) After 4-6 weeks most cells had left the ventricles (V) and populated the corpus callosum (CC), fimbria (fim), internal capsule (i.c.). BrdU+ cells were not found in the striatum (str) or CA region of the hippocampus (hipp). (C) Chains of BrdU+ cells were found in the rostral migratory stream (RMS). (D) BrdU+ cells in the periventricular white matter. (E) Higher magnification of D, to show nuclear specific localization of BrdU.

FIG. 37 shows identification of the transplanted cells in the brain by human and neural-lineage specific markers. (A) A typical chain of transplanted cells in the corpus callosum, stained with human specific anti-mitochondrial antibody. The mitochondrial staining (green fluorescence) on Nomarsky background (blue, cell nuclei indicated by asterisk) shows a typical perinuclear localization. (B) Double staining for BrdU (green fluorescence) and human specific anti ribonuclear protein (red fluorescence) shows nuclear co-localization, indicating that BrdU+ cells were indeed of human origin. (C) A ***GFAP*** + astrocyte (red) from the periventricular region, colabeled with BrdU (green), indicating its origin from the graft. (D) An NG2+ oligodendrocyte progenitor (red) in the periventricular region, co-labeled with BrdU (green). (E) A CNPase+ oligodendrocyte (red) in the corpus callosum, colabeled with BrdU (immunohistochemistry, shown as dark nucleus in Nomarsky). (F) Neuronal processes in the fimbria, stained with a human specific anti-70 kDa neurofilament. (G) A beta III-tubulin+ neuron (green fluorescence) in the olfactory bulb, co-labeled with BrdU (as dark nucleus (arrow) in Nomarsky). Bars=10 mu m. !

L5 ANSWER 89 OF 269 IFIPAT DUPLICATE 23

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IN FREEMAN THOMAS; JANSSEN WILLIAM; SANBERG PAUL; SANCHEZ-RAMOS JUAN; SONG SHIJIE
PA Unassigned Or Assigned To Individual (68000)
PPA South Florida, University of (Probable)
PI US 2002146821 A1 20021010
AI US 1999-307824 19990507
PRAI US 1998-84533P 19980507 (Provisional)
US 1998-112979P 19981217 (Provisional)
US 1999-129684P 19990416 (Provisional)
FI US 2002146821 20021010
US 6528245 20030304
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 20
GI 8 Figure(s).

FIG. 1 is a bar graph. BMSC adherent to culture dishes were treated with ***EGF*** (10 ng/ml), RA (0.5 mu M) or RA plus BDNF (10 ng/ml) for 7 days. Each bar represents the mean number (+-SEM) of fibronectin immunoreactive cells per visual field 20 x objective) determined in 20 fields per dish in 4 culture dishes. *=p less-than 0.05, two-tailed t-test FIGS. 2A through 2F are photomicrographs of BMSC from lacz mice that have been cocultured with mouse fetal midbrain cells for 2 weeks in N5 medium supplemented with cis-9 retinoic acid (0.5 mu M) and BDNF (10 ng/ml).

FIGS. 3A through 3F are photomicrographs, which illustrate the migration and integration of BMSC into rat midbrain. FIG. 3A (scale bar=500 mu m) shows symmetrical distribution despite unilateral grafting into the striatum. FIG. 3B is a region of the paraventricular nucleus (scale bar=100 mu m). None of the beta-gal+ cells are labeled with the red-brown stain (TH-ir). FIGS. 3A (Scale bar=500 mu m), 3B (Scale bar=100 mu m) and 3C (Scale bar=50 mu m) depict cells doubly stained for beta-gal and TH-ir. FIGS. 3D (Scale bar=50 mu m) and 3E (Scale bar=25 mu m) illustrate sections from the red nucleus that have doubly stained for beta-gal and NeuN-ir. FIG. 3F (Scale bar=25 mu m) illustrates beta-gal+ cells from the red nucleus also doubly stained for MAP2-ir.

FIGS. 4A through 4F are photomicrographs of a section from rat cerebellar lobule illustrating laminar distribution of betagal+ cells in a distribution of Purkinje cells. alpha-gal+ are co-labeled with calbindin immunoreactivity in FIGS. 4A, 4B, and 4C. (Scale bar=100 mu m in 4A, 50 mu m in 4B and 25 mu m in 4C). FIG. 4D shows beta-gal+ Purkinje cells co-labeled with GAD-ir (Scale bar=50 mu m). FIG. 4E illustrates dense MAP2-ir fibers enveloping beta-gal+ Purkinje cells (Scale bar=25 mu m). FIG. 4F illustrates beta-gal+ cells co-labeled with NeuN-ir in the deep cerebellar nucleus (Scale bar=25 mu m).

FIGS. 5A through 5D are photomicrographics showing the production of markers for fibronectin (FIG. 5A) and differentiated BMSC with nerve cell markers (FIGS. 5B, 5C and 5D).

FIG. 6 is a Western blot of the lysates of BMSC conditioned with four different treatments and labeled with ***GFAP*** -ir, ***nestin*** and NeuN. BDNF+RA+N5 induced the strongest expression of nerve cell markers while glial cell markers was most strongly expressed after N5 alone.

FIGS. 7A through 7F are photomicrographs of human BMSC which were co-cultured with fetal rat striatal cells in N5 formulation with BDNF+RA. These figures show that human BMSC (green labeled in FIGS. 7C and 7D and yellow in FIGS. 7E and 7F) can be induced to express neural markers NeuN (FIGS. 7A and 7E) and ***GFAP*** (FIGS. 7B and 7F).

FIG. 8 is a photomicrograph of rat brain, showing that mouse BMSC labeled with red PKH26 also express the neuron marker NeuNir (green fluorescence). In addition, the morphology of the doubly labeled cells is that of neurons.

FIG. 9 is a photomicrograph of rat brain, showing a doubly labelled glial cell. The red fluorescent tracer identifies it as derived from a BMSC, and the green fluorescence is due to ***GFAP*** -ir. Note the morphology is that of a glial cell.

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AN 10124433 IFIPAT;IFIUDB;IFICDB
TI EMBRYONIC STEM CELLS AND NEURAL PROGENITOR CELLS DERIVED THEREFROM; SUCH AS NEURAL PROGENITOR CELLS CAPABLE OF GIVING RISE TO MATURE SOMATIC CELLS INCLUDING NEURAL CELLS AND/OR GLIAL CELLS RECOGNIZABLE BY EXPRESSION OF SPECIFIC MARKERS
IN Ben-Hur Tamir (IL); Pera Martin Frederick (AU); Reubinoff Benjamin Eithan (IL)

PI US 2002068045 A1 20020606
AI US 2001-808382 20010314
PRAI AU 2000-6211 20000314
AU 2000-1279 20001106
AU 2001-2920 20010206
FI US 2002068045 20020606
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 85
GI 30 Figure(s).

FIG. 1 shows phase contrast micrographs of ES cells and their differentiated progeny. A, inner cell mass three days after plating. B, colony of ES cells. C, higher magnification of an area of an ES cell colony. D, an area of an ES cell colony undergoing spontaneous differentiation during routine passage. E, a colony four days after plating in the absence of a feeder cell layer but in the presence of 2000 units/ml human LIF undergoing differentiation in its periphery, F, neuronal cells in a high density culture. Scale bars: A and C, 25 microns; B and E, 100 microns; D and F, 50 microns.

FIG. 2 shows marker expression in ES cells and their differentiated somatic progeny. A, ES cell colony showing histochemical staining for alkaline phosphatase. B. ES cell colony stained with antibody MC-813-70 recognising the SSEA-4 epitope. C, ES cell colony stained with antibody TRA1-60. D, ES cell colony stained with antibody GCTM-2. E, high density culture, cell body and processes of a cell stained with antineurofilament 68 kDa protein. F, high density culture, cluster of cells and network of processes emanating from them stained with antibody against neural cell adhesion molecule. G, high density culture, cells showing cytoplasmic filaments stained with antibody to muscle actin. H, high density culture, cell showing cytoplasmic filaments stained with antibody to desmin. Scale bars: A, 100 microns; B-D, and F, 200 microns; E, G and H, 50 microns.

FIG. 3 shows RT-PCR analysis of gene expression in ES cells and their differentiated derivatives. All panels show 1.5% agarose gels stained with ethidium bromide. A, expression of Oct-4 and b-actin in ES stem cells and high density cultures. Lane 1, 100 bpDNA ladder. Lane 2, stem cell culture, b-actin. Lane 3, stem cell culture, Oct-4. Lane 4, stem cell culture, PCR for Oct-4 carried out with omission of reverse transcriptase. Lane 5, high density culture, b-actin. Lane 6, high density culture, Oct-4. Lane 7, high density culture, PCR for Oct-4 carried out with omission of reverse transcriptase. b-actin band is 200 bp and Oct-4 band is 320 bp. B, expression of ***nestin*** and Pax-6 in neural progenitor cells that were derived from differentiating ES colonies. Left lane, 100 bp DNA ladder; lane 1, b-actin in HX 142 neuroblastoma cell line (positive control for ***nestin*** PCR) ; lane 2, b-actin in neural progenitor cells; lane 3, ***nestin*** in HX 142 neuroblastoma cell line; lane 4, ***nestin*** in neural progenitor cells; lane 5, ***nestin*** PCR on same sample as lane 4 without addition of reverse transcriptase; lane 6, Pax-6; lane 7, Pax-6 PCR on same sample as line 6 without addition of reverse transcriptase. ***Nestin*** band is 208 bp, Pax-6 is 274 bp. C, expression of glutamic acid decarboxylase in cultures of neurons. Left lane, 100 bp DNA ladder; lane 1, b-actin; lane 2, b-actin PCR on same sample as lane 1 without addition of reverse transcriptase; lane 3, glutamic acid decarboxylase; lane 4 glutamic acid decarboxylase on same sample as lane 3 without addition of reverse transcriptase. Glutamic acid decarboxylase band is 284 bp. D, expression of GABA A alpha 2 receptor. Left lane, 100 bp DNA ladder; lane 1, b-actin; lane 2, GABA A alpha 2 receptor; lane 3, PCR without addition of reverse transcriptase. GABA A alpha 2 receptor subunit band is 471 bp.

FIG. 4 shows histology of differentiated elements found in teratomas formed in the testis of SCID mice following inoculation of HES-1 or HES-2 colonies. A, cartilage and squamous epithelium, HES-2. B, neural rosettes, HES-2. C, ganglion, gland and striated muscle, HES-1. D, bone and cartilage, HES-1. E, glandular epithelium, HES-1. F, ciliated columnar epithelium, HES-1. Scale bars: A-E, 100 microns; F, 50 microns.

FIG. 5 shows phase contrast microscopy and immunochemical analysis of marker expression in neural progenitor cells isolated from differentiating ES cultures. A, phase contrast image of a sphere formed in serum-free medium. B-D, indirect immunofluorescence staining of spheres, 4 hours after plating on adhesive substrate, for N-CAM, ***nestin*** , and vimentin respectively. In C and D, cells at the base of the sphere were placed in plane of focus to illustrate filamentous staining; confocal examination revealed that cells throughout the sphere were decorated by both antibodies. Scale bar is 100 microns in all

FIG. 6 shows phase contrast appearance and marker expression in cultures of neurons derived from progenitor cells shown in FIG. 5. A, phase contrast micrograph of differentiated cells emanating from a sphere plated onto adhesive surface. B-H, indirect immunofluorescence microscopy of differentiated cells decorated with antibodies against 200 kDa neruofilament protein (B), 160 kDa neurofilament protein (C), MAP2a+b (D), glutamate (E), synaptophysin (F), glutamic acid decarboxylase (G) and beta-tubulin (H). Scale bars: A,;B, 100 microns; C, 200 mircons; D, 20 microns; E and F, 10 microns; G, 20 microns; H, 25 microns.
FIG. 7 shows neural precursors proliferating as a monolayer on a plastic tissue culture dish in the presence of ***EGF*** and bFGF. These monolayer cultures of proliferating cells were obtained after prolonged cultivation (2-3 weeks) of the spheres in the presence of growth factors without sub-culturing.
FIG. 8 shows phase contrast appearance of a culture consisting of differentiated neural cells.
FIG. 9 shows phase contrast appearance of a sphere that is formed 72 hours after the transfer of a clump of undifferentiated ES cells into serum free medium (Scale bar 100 microns).
FIG. 10 shows linear correlation between the volume of spheres and the number of progenitor cells within a sphere. Spheres of various diameters that were generated from differentiating ES colonies and were propagated for 14-15 weeks were dissaggregated into single cell suspension and the number of cells per sphere was counted.
FIG. 11 shows indirect immunofluorescence staining of a sphere, 4 hours after plating on adhesive substrate, for N-CAM. The sphere was generated by direct transfer of undifferentiated ES cells into serum free medium and propagation of the resulting spheres for 5 passages. (Scale bar 100 microns).
FIG. 12 shows indirect immunofluorescence membraneous staining for N-CAM of single cells at the periphery of a sphere 4 hours after plating on adhesive substrate. The sphere was generated by direct transfer of undifferentiated ES cells into serum free medium and propagation of the resulting spheres for 5 passages. (Scale bar 25 microns).
FIG. 13 shows indirect immunofluorescence staining of a spheres 4 hours after plating on adhesive substrate for the intermediate filament ***nestin*** . Cells at the base of the sphere were placed in plane of focus to illustrate filamentous staining. The sphere was generated by direct transfer of undifferentiated ES cells into serum free medium and propagation of resulting spheres for 5 passages. (Scale bar 25 microns).
FIG. 14 shows indirect immunofluorescence microscopy of a differentiated cell decorated with antibodies against the oligodendrocyte progenitor marker O4. (Scale bar 12.5 microns).
FIG. 15 shows indirect immunofluorescence staining of a sphere 4 hours after plating on adhesive substrate for the intermediate filament vimentin. Cells at the base of the sphere were placed in plane of focus to illustrate filamentous staining. The sphere was generated by direct transfer of undifferentiated ES cells into serum free medium and propagation of resulting spheres for 7 passages. (Scale bar 25 microns).
FIG. 16 shows the growth pattern of spheres that were generated directly from undifferentiated ES cells. Each bar represents the mean (+-SD) increment in volume per week of 24 spheres at first to twelve weeks after derivation. A more excessive growth rate is evident during the first 5 weeks.
FIG. 17 shows persistent growth in the volume of spheres along time. Each bar represents the mean (+-SD) increment in volume per week of 24 spheres at nine to twenty one weeks after derivation. The spheres were generated from differentiating ES colonies.
FIG. 18 shows linear correlation between the volume of spheres and the number of progenitor cells within a sphere. Spheres of various diameters, that were generated directly from undifferentiated ES cells and were propagated 5-7 weeks, were dissaggregated into single cell suspension and the number of cells per sphere was counted.
FIG. 19 shows RT-PCR analysis of gene expression in ES cells (a week after passage) and neural spheres derived from differentiating colonies and directly from undifferentiated ES cell. All panels show 2% agarose gels stained with ethidium bromide. Lanes 1, 2 and 3, Oct-4 in ES cell culture, neural spheres derived from differentiating colonies, neural spheres derived from undifferentiated ES cells. Lane 4, stem cell culture, PCR for Oct-4 carried out with omission of reverse transcriptase. Lanes 5, 6, and 7, ***nestin*** in ES cell culture, neural spheres derived from differentiating colonies, neural spheres derived from undifferentiated ES cells. Lane 8, stem cell culture, PCR for ***nestin*** carried out with omission of reverse transcriptase. Lanes 9, 10 and 11, Pax-6 in ES cell culture, neural spheres derived from

cells. Lane 12, stem cell culture, PCR for Pax-6 carried out with omission of reverse transcriptase. Lane 13, 100 bp DNA ladder. Oct-4 band is 320 bp, ***nestin*** is 208 bp and Pax-6 is 274 bp.

FIG. 20 shows indirect immunofluorescence microscopy of differentiated astrocyte cells decorated with antibody against ***GFAP*** . (Scale bar 25 microns).

FIG. 21 shows indirect immunofluorescence microscopy of brain sections of two mice (A and B) 4 weeks after transplantation of human neural precursors prelabeled with BrDU. Cells with a nucleus decorated with anti BrDU (brown stain, black arrow) are evident near the ventricular surface (white arrow indicate mouse unstained nuclei, bar=20 microns).

FIG. 22 shows indirect immunofluorescence microscopy of brain sections of a mice 4 weeks after transplantation of human neural precursors prelabeled with BrDU. Wide spread distribution of transplanted human cells decorated by anti BrDU antibodies is evident in the periventricular areas. The periventricular area in A is demonstrated at a higher magnification in B and C. (Bars=150, 60 and 30 microns in A, B and C).

FIG. 23 shows indirect immunocytochemical microscopy of brain sections of a mice 4 weeks after transplantation of human neural precursors prelabeled with BrDU. The transplanted human cells are migrating along the rostral migratory stream (bar=150 microns).

FIG. 24 shows RT-PCR analysis of gene expression in neural spheres derived from differentiating (A) and undifferentiated (B) ES cells. All panels show 2% agarose gels stained with ethidium bromide. Lanes 1 and 10, 100 bpDNA ladder; Lane 2, CD34; Lane 3, Flk-1; lane 4, HNF-3; lane 5, alfafetoprotein. Lanes 6-9 PCR reaction on the same samples as lanes 2-5 carried out with the omission of reverse transcriptase. CD-34 band is 200 bp, Flk-1 is 199, HNF-3 is 390, AFP is 340 bp.

FIG. 25 shows by RT-PCR analysis the expression of ***GFAP*** and the plp gene in differentiated cells from neural spheres derived from differentiating ES cell colonies. The expression of ***GFAP*** indicates differentiation into astrocytes while the presence of both dm-20 and plp transcripts indicate that differentiation into oligodendrocyte cells has occurred. Lanes 2,4,6 and lanes 3,5,7 are from two separate RNA samples from differentiated spheres that were independently derived from ES cells. Lane 1 and 8, 100 bp DNA ladder; Lanes 2 and 4, ***GFAP*** ; lanes 3 and 5, plp and dm-20; lanes 6 and 7, PCR reaction on the same samples as lanes 3 and 5 carried out with the omission of reverse transcriptase. ***GFAP*** band is 383, plp band is 354 bp and dm-20 is 249 bp.

FIG. 26 shows a dark field stereomicroscopic photograph of areas (arrows) destined to give rise to neural precursors in a differentiating ES cell colony 3 weeks after passage (bar=1.6 mm).

FIG. 27 shows indirect immunochemical analysis of marker expression in cultures of neurons derived from progenitor cells that were derived directly from undifferentiated ES cells: A, indirect immunofluorescence microscopy of neurits decorated with antibody against 160 kDa neruofilament protein. B and C, indirect immunofluorescence staining of differentiated cells for MAP2a+b and beta-tubulin III. Scale bars: A 100 microns, B and C 10 microns.

FIG. 28 shows indirect immunochemical analysis of the expression of tyrosine hydroxylase. Neurits (A) and a differentiated cell (B) are decorated with antibodies against tyrosine hydroxylase. Scale bars: 30 microns.

FIG. 29 shows in vivo differentiation into astrocyte cells of transplanted human neural progenitors prelabeled with BrDU. Donor cells are identified by indirect immunochemical detection of BrDU (dark nuclei, arrows). Duel staining demonstrates donor cells decorated by anti ***GFAP*** (orange). Transplanted cells are migrating into the brain parenchyma (white arrow) and are also found in the periventricular zone (dark arrow) (A), A higher magnification of cells that have differentiated into astrocytes and migrated into the host brain (B).

FIG. 30 shows in vivo differentiation into oligodendrocyte cells of transplanted human neural progenitors prelabeled with BrDU. Donor cells are identified by indirect immunochemical detection of BrDU (dark nuclei, arrows). Duel staining demonstrates donor cells decorated by anti CNPase (orange). !

L5 ANSWER 91 OF 269 USPATFULL on STN DUPLICATE 25
AN 2002:265873 USPATFULL
TI DIAGNOSIS AND TREATMENT OF NEUROECTODERMAL TUMORS
IN LYONS PH.D., SUSAN A., BIRMINGHAM, AL, UNITED STATES
SONTHEIMER, HARALD W., BIRMINGHAM, AL, UNITED STATES
PI US 2002146749 A1 20021010
US 6667156 B2 20031223

DT   Utility
FS   APPLICATION
LN.CNT 977
INCL   INCLM: 435/007.230
        INCLS: 435/007.100; 436/063.000; 436/064.000
NCL   NCLM: 435/007.230
        NCLS: 435/007.100; 436/063.000; 436/064.000; 436/813.000
IC   [7]
        ICM: A61M036-14
        ICS: A61K051-00; G01N033-53; G01N033-574; G01N033-48
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 92 OF 269 USPATFULL on STN   DUPLICATE 26
AN   2002:185669 USPATFULL
TI   Differentiated stem cells suitable for human therapy
IN   Gold, Joseph D., San Francisco, CA, UNITED STATES
        Lebkowski, Jane S., Portola Valley, CA, UNITED STATES
PI   US 2002098582   A1   20020725
        US 6576464   B2   20030610
AI   US 2001-783203   A1   20010213 (9)
PRAI   US 2000-253443P   20001127 (60)
        US 2000-253357P   20001127 (60)
DT   Utility
FS   APPLICATION
LN.CNT 3087
INCL   INCLM: 435/366.000
        INCLS: 424/093.210; 435/194.000
NCL   NCLM: 435/325.000
        NCLS: 536/023.100; 536/023.400; 536/024.100; 536/025.500
IC   [7]
        ICM: A61K048-00
        ICS: C12N005-08; C12N009-12
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 93 OF 269 USPATFULL on STN   DUPLICATE 27
AN   2002:72652 USPATFULL
TI   Method for production of neuroblasts
IN   Gage, Fred H., La Jolla, CA, UNITED STATES
        Ray, Jasodhara, San Diego, CA, UNITED STATES
PI   US 2002039789   A1   20020404
        US 6599695   B2   20030729
AI   US 2001-915229   A1   20010724 (9)
RLI   Continuation of Ser. No. US 1997-884427, filed on 27 Jun 1997, GRANTED,
        Pat. No. US 6265175 Continuation of Ser. No. US 1995-445075, filed on 19
        May 1995, ABANDONED Division of Ser. No. US 1993-147843, filed on 3 Nov
        1993, GRANTED, Pat. No. US 5766948 Continuation-in-part of Ser. No. US
        1993-1543, filed on 6 Jan 1993, ABANDONED
DT   Utility
FS   APPLICATION
LN.CNT 1624
INCL   INCLM: 435/368.000
NCL   NCLM: 435/004.000
        NCLS: 435/006.000; 435/007.100; 435/007.200; 435/007.210; 435/029.000
IC   [7]
        ICM: C12N005-08

L5   ANSWER 94 OF 269 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN   2003-09341 BIOTECHDS
TI   Generating substantially homogeneous population of undifferentiated cells
       from sample, by disrupting tissue sample, discriminating cells in
       population based on size and performing cell-surface marker-
       discrimination;
          for tissue engineering and gene therapy
AU   BARTLETT P F; RIETZE R L
PA   HALL INST MEDICAL RES WALTER and ELIZA
PI   WO 2002097067 5 Dec 2002
AI   WO 2002-AU700 31 May 2002
PRAI   AU 2001-5403 1 Jun 2001; AU 2001-5403 1 Jun 2001
DT   Patent
LA   English
OS   WPI: 2003-140465 [13]

L5   ANSWER 95 OF 269 USPATFULL on STN
AN   2002:337936 USPATFULL
TI   ***TGF*** -alpha polypeptides, functional fragments and methods of

IN   Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES
        Pernet, Andre, Lake Forest, IL, UNITED STATES
        Felker, Thomas S., Vashon, WA, UNITED STATES
        Paskell, Stefan, Bainbridge Island, WA, UNITED STATES
PA   Stem Cell Pharmaceuticals, Inc. (U.S. corporation)
PI   US 2002193301   A1   20021219
AI   US 2002-39119   A1   20020104 (10)
RLI   Continuation of Ser. No. US 2000-641587, filed on 17 Aug 2000, PENDING
        Continuation-in-part of Ser. No. US 2000-492935, filed on 27 Jan 2000,
        PENDING Continuation-in-part of Ser. No. US 1999-378567, filed on 19 Aug
        1999, PENDING
DT   Utility
FS   APPLICATION
LN.CNT 2673
INCL   INCLM: 514/012.000
NCL   NCLM: 514/012.000
IC   [7]
        ICM: A61K038-18
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 96 OF 269 USPATFULL on STN
AN   2002:322564 USPATFULL
TI   Method for transdifferentiation of non pancreatic stem cells to the
        pancreatic differentiation pathway
IN   Ramiya, Vijayakumar, Gainesville, FL, UNITED STATES
        Clark, Amy, Gainesville, FL, UNITED STATES
PI   US 2002182728   A1   20021205
AI   US 2002-113118   A1   20020329 (10)
PRAI   US 2001-279922P   20010329 (60)
DT   Utility
FS   APPLICATION
LN.CNT 775
INCL   INCLM: 435/366.000
        INCLS: 424/093.210; 424/093.700
NCL   NCLM: 435/366.000
        NCLS: 424/093.210; 424/093.700
IC   [7]
        ICM: A61K048-00
        ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 97 OF 269 USPATFULL on STN
AN   2002:315966 USPATFULL
TI   Transgenic mice expressing fluorescent protein
IN   Enikolopov, Grigori N., Cold Spring Harbor, NY, UNITED STATES
        Mignone, John, Bronxville, NY, UNITED STATES
PA   Cold Spring Harbor Laboratory (U.S. corporation)
PI   US 2002178460   A1   20021128
AI   US 2002-150509   A1   20020516 (10)
RLI   Continuation of Ser. No. WO 2000-US31150, filed on 14 Nov 2000, PENDING
        Continuation-in-part of Ser. No. US 1999-444335, filed on 19 Nov 1999,
        PENDING
DT   Utility
FS   APPLICATION
LN.CNT 1425
INCL   INCLM: 800/018.000
NCL   NCLM: 800/018.000
IC   [7]
        ICM: A01K067-027
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 98 OF 269 USPATFULL on STN
AN   2002:301574 USPATFULL
TI   ***TGF*** -alpha polypeptides, functional fragments and methods of
        use therefor
IN   Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES
        Pernet, Andre, Lake Forest, IL, UNITED STATES
        Felker, Thomas S., Vashon, WA, UNITED STATES
        Paskell, Stefan, Bainbridge Island, WA, UNITED STATES
PI   US 2002169119   A1   20021114
AI   US 2001-932172   A1   20010817 (9)
RLI   Continuation-in-part of Ser. No. US 2000-641587, filed on 17 Aug 2000,
        PENDING Continuation-in-part of Ser. No. US 2000-492935, filed on 27 Jan
        2000, PENDING Continuation-in-part of Ser. No. US 1999-378567, filed on
        19 Aug 1999, PENDING

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FS      APPLICATION
LN.CNT 2472
INCL    INCLM: 514/012.000
NCL     NCLM:  514/012.000
IC      [7]
        ICM: A61K038-18
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 99 OF 269  USPATFULL on STN
AN      2002:301223  USPATFULL
TI      Method of isolating human neuroepithelial precursor cells from human
        fetal tissue
IN      Mayer-Proschel, Margot, Pittsford, NY, UNITED STATES
        Rao, Mahendra S., Salt Lake City, UT, UNITED STATES
        Tresco, Patrick A., Sandy, UT, UNITED STATES
        Messina, Darin J., Salt Lake City, UT, UNITED STATES
PI      US 2002168767       A1    20021114
AI      US 2001-813429      A1    20010321 (9)
DT      Utility
FS      APPLICATION
LN.CNT 829
INCL    INCLM: 435/368.000
        INCLS: 800/008.000
NCL     NCLM:  435/368.000
        NCLS:  800/008.000
IC      [7]
        ICM: C12N005-08
        ICS: A01K067-00

L5    ANSWER 100 OF 269  USPATFULL on STN
AN      2002:301222  USPATFULL
TI      Genetically altered human pluripotent stem cells
IN      Gold, Joseph D., San Francisco, CA, UNITED STATES
        Carpenter, Melissa K., Castro Valley, CA, UNITED STATES
        Inokuma, Margaret S., San Jose, CA, UNITED STATES
        Xu, Chunhui, Cupertino, CA, UNITED STATES
PI      US 2002168766       A1    20021114
AI      US 2001-849022      A1    20010504 (9)
PRAI    US 2000-175581P      20000111 (60)
        US 2000-213740P      20000622 (60)
        US 2000-213739P      20000622 (60)
        US 2000-216387P      20000707 (60)
        US 2000-220064P      20000721 (60)
        US 2000-257608P      20001222 (60)
DT      Utility
FS      APPLICATION
LN.CNT 2640
INCL    INCLM: 435/366.000
        INCLS: 435/455.000
NCL     NCLM:  435/366.000
        NCLS:  435/455.000
IC      [7]
        ICM: C12N005-08
        ICS: C12N015-87
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 101 OF 269  USPATFULL on STN
AN      2002:301219  USPATFULL
TI      Isolated homozygous stem cells, differentiated cells derived therefrom,
        and materials and methods for making and using same
IN      Yan, Wen Liang, Potomac, MD, UNITED STATES
        Huang, Steve Chien-Wen, Germantown, MD, UNITED STATES
        Nguyen, Minh-Thanh, Rockville, MD, UNITED STATES
        Lin, Hua (Helen), Potomac, MD, UNITED STATES
        Lei, Jingqi, Gaithersburg, MD, UNITED STATES
        Khanna, Ruchi, Germantown, MD, UNITED STATES
PI      US 2002168763       A1    20021114
AI      US 2001-997240      A1    20011130 (9)
PRAI    US 2000-253943P      20001130 (60)
DT      Utility
FS      APPLICATION
LN.CNT 3422
INCL    INCLM: 435/325.000
        INCLS: 435/354.000; 435/366.000; 435/350.000
NCL     NCLM:  435/325.000
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IC      [7]
        ICM: C12N005-06
        ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 102 OF 269  USPATFULL on STN
AN      2002:300807  USPATFULL
TI      Methods for treating disorders of neuronal deficiency with bone
        marrow-derived cells
IN      Brazelton, Timothy R., Cupertino, CA, UNITED STATES
        Blau, Helen M., Menlo Park, CA, UNITED STATES
PI      US 2002168350       A1    20021114
AI      US 2001-993045      A1    20011113 (9)
PRAI    US 2000-247128P      20001110 (60)
DT      Utility
FS      APPLICATION
LN.CNT 1696
INCL    INCLM: 424/093.210
        INCLS: 424/093.700
NCL     NCLM:  424/093.210
        NCLS:  424/093.700
IC      [7]
        ICM: A61K048-00

L5   ANSWER 103 OF 269  USPATFULL on STN
AN      2002:294751  USPATFULL
TI      Human cord blood derived unrestricted somatic stem cells (USSC)
IN      Wernet, Peter, Duesseldorf, GERMANY, FEDERAL REPUBLIC OF
PI      US 2002164794       A1    20021107
AI      US 2001-985335      A1    20011102 (9)
PRAI    US 2000-245168P      20001103 (60)
DT      Utility
FS      APPLICATION
LN.CNT 895
INCL    INCLM: 435/372.000
NCL     NCLM:  435/372.000
IC      [7]
        ICM: C12N005-08

L5   ANSWER 104 OF 269  USPATFULL on STN
AN      2002:294271  USPATFULL
TI      Cultures of human CNS neural stem cells
IN      Carpenter, Melissa, Foster City, CA, UNITED STATES
PI      US 2002164309       A1    20021107
AI      US 2002-134234      A1    20020429 (10)
RLI     Continuation of Ser. No. US 2000-486302, filed on 16 Oct 2000, PENDING A
        371 of International Ser. No. WO 1998-US18597, filed on 4 Sep 1998,
        UNKNOWN
DT      Utility
FS      APPLICATION
LN.CNT 995
INCL    INCLM: 424/093.700
        INCLS: 435/368.000
NCL     NCLM:  424/093.700
        NCLS:  435/368.000
IC      [7]
        ICM: C12N005-08
        ICS: A61K045-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 105 OF 269  USPATFULL on STN
AN      2002:280006  USPATFULL
TI      Using overexpression of laminin alpha 4 subunit as a diagnostic and
        prognostic indicator of malignant tumors
IN      Ljubimova, Julia Y., Studio City, CA, UNITED STATES
        Ljubimov, Alexander V., Studio City, CA, UNITED STATES
        Black, Keith L., Los Angeles, CA, UNITED STATES
PI      US 2002155440       A1    20021024
AI      US 2000-741550      A1    20001219 (9)
DT      Utility
FS      APPLICATION
LN.CNT 2437
INCL    INCLM: 435/006.000
        INCLS: 435/007.230
NCL     NCLM:  435/006.000
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IC   [7]
        ICM: C12Q001-68
        ICS: G01N033-574
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 106 OF 269 USPATFULL on STN
AN   2002:272935 USPATFULL
TI   Novel differentiation inducing process of embryonic stem cell to
        ectodermal cell and its use
IN   Sasai, Yoshiki, Kyoto, JAPAN
        Nishikawa, Shin-Ichi, Kyoto, JAPAN
PI   US 2002151056   A1   20021017
AI   US 2001-855587   A1   20010516 (9)
PRAI   JP 2000-144059   20000516
        JP 2000-290819   20000925
        US 2000-257049P   20001220 (60)
DT   Utility
FS   APPLICATION
LN.CNT 4056
INCL   INCLM: 435/368.000
NCL   NCLM: 435/368.000
IC   [7]
        ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 107 OF 269 USPATFULL on STN
AN   2002:272932 USPATFULL
TI   Direct differentiation of human pluripotent stem cells and
        characterization of differentiated cells
IN   Carpenter, Melissa K., Castro Valley, CA, UNITED STATES
        Funk, Walter D., Hayward, CA, UNITED STATES
        Thies, R. Scott, Pleasanton, CA, UNITED STATES
PI   US 2002151053   A1   20021017
AI   US 2002-87473   A1   20020301 (10)
RLI   Continuation of Ser. No. US 2001-888309, filed on 21 Jun 2001, PENDING
PRAI   US 2000-213739P   20000622 (60)
        US 2000-216387P   20000707 (60)
        US 2000-220064P   20000721 (60)
        US 2000-213740P   20000622 (60)
DT   Utility
FS   APPLICATION
LN.CNT 2173
INCL   INCLM: 435/366.000
NCL   NCLM: 435/366.000
IC   [7]
        ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 108 OF 269 USPATFULL on STN
AN   2002:258890 USPATFULL
TI   Generation, characterization, and isolation of neuroepithelial stem
        cells and lineage restricted intermediate precursor
IN   Rao, Mahendra S., Salt Lake City, UT, UNITED STATES
        Mayer-Proschel, Margot, Sandy, UT, UNITED STATES
PI   US 2002142460   A1   20021003
AI   US 2001-25333   A1   20011219 (10)
RLI   Continuation of Ser. No. US 1997-852744, filed on 7 May 1997, GRANTED,
        Pat. No. US 6361996
DT   Utility
FS   APPLICATION
LN.CNT 1407
INCL   INCLM: 435/368.000
NCL   NCLM: 435/368.000
IC   [7]
        ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 109 OF 269 USPATFULL on STN
AN   2002:251257 USPATFULL
TI   Techniques for growth and differentiation of human pluripotent stem
        cells
IN   Carpenter, Melissa K., Castro Valley, CA, UNITED STATES
        Funk, Walter D., Hayward, CA, UNITED STATES
        Gold, Joseph D., San Francisco, CA, UNITED STATES
        Inokuma, Margaret S., San Jose, CA, UNITED STATES

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PI      US 2002137204      A1   20020926
AI      US 2001-39956      A1   20011023 (10)
RLI     Continuation of Ser. No. US 2001-859291, filed on 16 May 2001, PENDING
PRAI    WO 2001-US1030         20010110
        US 2000-175581P        20000111 (60)
        US 2000-213740P        20000622 (60)
        US 2000-213739P        20000622 (60)
        US 2000-216387P        20000707 (60)
        US 2000-220064P        20000721 (60)
DT      Utility
FS      APPLICATION
LN.CNT 4058
INCL    INCLM: 435/366.000
NCL     NCLM:  435/366.000
IC      [7]
        ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 110 OF 269  USPATFULL on STN
AN      2002:243053  USPATFULL
TI      Cell lineage markers
IN      Lovell-Badge, Robin, Mill Hill, UNITED KINGDOM
        Pevny, Larysa Halyna, Chapel Hill, NC, UNITED STATES
        Episkopou, Vasso, UNITED STATES
PI      US 2002132239      A1   20020919
AI      US 2001-886899     A1   20010621 (9)
PRAI    GB 1998-28383          19981222
        WO 1999-GB4336         19991221
DT      Utility
FS      APPLICATION
LN.CNT 2157
INCL    INCLM: 435/006.000
        INCLS: 435/007.210; 435/368.000
NCL     NCLM:  435/006.000
        NCLS:  435/007.210; 435/368.000
IC      [7]
        ICM: C12Q001-68
        ICS: G01N033-567; C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 111 OF 269  USPATFULL on STN
AN      2002:228305  USPATFULL
TI        ***TGF***  -alpha polypeptides, functional fragments and methods of
        use therefor
IN      Twardzik, Daniel R., Bainbridge Island, WA, UNITED STATES
        Pernet, Andre, Lake Forest, IL, UNITED STATES
        Felker, Thomas S., Vashon, WA, UNITED STATES
        Paskell, Stefan, Bainbridge Island, WA, UNITED STATES
PA      Stem Cell Pharmaceuticals, Inc. (U.S. corporation)
PI      US 2002123465      A1   20020905
AI      US 2002-50190      A1   20020115 (10)
RLI     Continuation of Ser. No. US 2000-641587, filed on 17 Aug 2000, PENDING
        Continuation-in-part of Ser. No. US 2000-492935, filed on 27 Jan 2000,
        PENDING Continuation-in-part of Ser. No. US 1999-378567, filed on 19 Aug
        1999, PENDING
DT      Utility
FS      APPLICATION
LN.CNT 2684
INCL    INCLM: 514/012.000
NCL     NCLM:  514/012.000
IC      [7]
        ICM: A61K038-19
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 112 OF 269  USPATFULL on STN
AN      2002:213684  USPATFULL
TI      Drug screening system
IN      Terada, Naohiro, Gainesville, FL, UNITED STATES
        Hamazaki, Takashi, Gainesville, FL, UNITED STATES
PI      US 2002115059      A1   20020822
AI      US 2001-45721      A1   20011026 (10)
PRAI    US 2000-243549P        20001026 (60)
DT      Utility
FS      APPLICATION
LN.CNT 804
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INCLS: 435/007.200; 435/007.210; 435/354.000
NCL NCLM: 435/004.000
NCLS: 435/007.200; 435/007.210; 435/354.000
IC [7]
ICM: C12Q001-00
ICS: G01N033-53; G01N033-567; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 113 OF 269 USPATFULL on STN
AN 2002:213415 USPATFULL
TI Cell implantation therapy for neurological diseases or disorders
IN Isacson, Ole, Cambridge, MA, UNITED STATES
Kim, Kwang Soo, Lexington, MA, UNITED STATES
PI US 2002114788 A1 20020822
AI US 2001-917126 A1 20010727 (9)
RLI Continuation-in-part of Ser. No. US 2000-626677, filed on 27 Jul 2000, PENDING
DT Utility
FS APPLICATION
LN.CNT 1427
INCL INCLM: 424/093.210
INCLS: 435/368.000; 435/456.000
NCL NCLM: 424/093.210
NCLS: 435/368.000; 435/456.000
IC [7]
ICM: A61K048-00
ICS: C12N005-08

L5 ANSWER 114 OF 269 USPATFULL on STN
AN 2002:193036 USPATFULL
TI Transgenic animals for screening therapeutic agents for brain tumors
IN Chiu, Ing-Ming, Dublin, OH, UNITED STATES
PI US 2002104114 A1 20020801
AI US 2001-990249 A1 20011121 (9)
PRAI US 2000-252745P 20001122 (60)
DT Utility
FS APPLICATION
LN.CNT 1153
INCL INCLM: 800/018.000
NCL NCLM: 800/018.000
IC [7]
ICM: A01K067-027
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 115 OF 269 USPATFULL on STN
AN 2002:191488 USPATFULL
TI Molecular markers for the diagnosis of alzheimer's disease
IN Coleman, Paul D., Rochester, NY, UNITED STATES
Chow, Nienwen, Rochester, NY, UNITED STATES
Cox, Christopher, Pittsford, NY, UNITED STATES
PA University of Rochester (U.S. corporation)
PI US 2002102553 A1 20020801
AI US 2001-770534 A1 20010125 (9)
RLI Continuation of Ser. No. US 1998-178170, filed on 23 Oct 1998, ABANDONED
PRAI US 1997-63274P 19971024 (60)
DT Utility
FS APPLICATION
LN.CNT 2538
INCL INCLM: 435/006.000
INCLS: 435/091.200
NCL NCLM: 435/006.000
NCLS: 435/091.200
IC [7]
ICM: C12Q001-68
ICS: C12P019-34
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 116 OF 269 USPATFULL on STN
AN 2002:171974 USPATFULL
TI Techniques for growth and differentiation of human pluripotent stem cells
IN Carpenter, Melissa K., Castro Valley, CA, UNITED STATES
Inokuma, Margaret S., San Jose, CA, UNITED STATES
Xu, Chunhui, Cupertino, CA, UNITED STATES
PI US 2002090723 A1 20020711

RLI   Continuation of Ser. No. US 2001-859291, filed on 16 May 2001, PENDING
PRAI   WO 2001-US1030   20010110
        WO 2001-51616   20010719
        US 2000-175581P   20000111 (60)
        US 2000-213740P   20000622 (60)
        US 2000-213739P   20000622 (60)
        US 2000-216387P   20000707 (60)
        US 2000-220064P   20000721 (60)
DT   Utility
FS   APPLICATION
LN.CNT 3920
INCL   INCLM: 435/366.000
        INCLS: 435/368.000
NCL   NCLM: 435/366.000
        NCLS: 435/368.000
IC   [7]
        ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 117 OF 269 USPATFULL on STN
AN   2002:171854 USPATFULL
TI   Methods of differentiating and protecting cells by modulating the
        P38/MEF2 pathway
IN   Lipton, Stuart A., Rancho Santa Fe, CA, UNITED STATES
        Okamoto, Shu-ichi, San Diego, CA, UNITED STATES
PI   US 2002090603   A1   20020711
AI   US 2001-876187   A1   20010605 (9)
PRAI   US 2000-209539P   20000605 (60)
DT   Utility
FS   APPLICATION
LN.CNT 2262
INCL   INCLM: 435/004.000
        INCLS: 435/372.000
NCL   NCLM: 435/004.000
        NCLS: 435/372.000
IC   [7]
        ICM: C12Q001-00
        ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 118 OF 269 USPATFULL on STN
AN   2002:164392 USPATFULL
TI   Tolerizing allografts of pluripotent stem cells
IN   Chiu, Choy-Pik, Cupertino, CA, UNITED STATES
        Kay, Robert M., San Francisco, CA, UNITED STATES
PI   US 2002086005   A1   20020704
AI   US 2001-990522   A1   20011121 (9)
PRAI   US 2000-252688P   20001122 (60)
DT   Utility
FS   APPLICATION
LN.CNT 1045
INCL   INCLM: 424/093.210
        INCLS: 424/093.700; 435/366.000
NCL   NCLM: 424/093.210
        NCLS: 424/093.700; 435/366.000
IC   [7]
        ICM: A61K048-00
        ICS: C12N005-08

L5   ANSWER 119 OF 269 USPATFULL on STN
AN   2002:157125 USPATFULL
TI   Techniques for growth and differentiation of human pluripotent stem
        cells
IN   Carpenter, Melissa K., Castro Valley, CA, UNITED STATES
        Funk, Walter D., Hayward, CA, UNITED STATES
        Gold, Joseph D., San Francisco, CA, UNITED STATES
        Inokuma, Margaret S., San Jose, CA, UNITED STATES
        Xu, Chunhui, Cupertino, CA, UNITED STATES
PI   US 2002081724   A1   20020627
AI   US 2001-859291   A1   20010516 (9)
RLI   Continuation of Ser. No. WO 2001-US1030, filed on 10 Jan 2001, UNKNOWN
PRAI   US 2000-175581P   20000111 (60)
        US 2000-213740P   20000622 (60)
        US 2000-213739P   20000622 (60)
        US 2000-216387P   20000707 (60)

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DT      Utility
FS      APPLICATION
LN.CNT  4037
INCL    INCLM: 435/366.000
        INCLS: 435/354.000; 435/384.000
NCL     NCLM:  435/366.000
        NCLS:  435/354.000; 435/384.000
IC      [7]
        ICM: C12N005-06
        ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 120 OF 269  USPATFULL on STN
AN      2002:156691  USPATFULL
TI      NRG-2 nucleic acid molecules, polypeptides, and diagnostic and
        therapeutic methods
IN      Marchionni, Mark, Arlington, MA, UNITED STATES
PI      US 2002081286       A1    20020627
AI      US 2001-864675      A1    20010523 (9)
PRAI    US 2000-206495P       20000523 (60)
DT      Utility
FS      APPLICATION
LN.CNT  1982
INCL    INCLM: 424/094.100
        INCLS: 424/085.100
NCL     NCLM:  424/094.100
        NCLS:  424/085.100
IC      [7]
        ICM: A61K038-43
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 121 OF 269  USPATFULL on STN
AN      2002:106321  USPATFULL
TI      Compositions and methods for promoting tissue regeneration
IN      Neuberger, Timothy J., Dobbs Ferry, NY, UNITED STATES
        Herzberg, Uri, Guilford, CT, UNITED STATES
        Mallon, Veronica, New City, NY, UNITED STATES
PI      US 2002055530       A1    20020509
AI      US 2001-827666      A1    20010406 (9)
PRAI    US 2000-195516P       20000406 (60)
DT      Utility
FS      APPLICATION
LN.CNT  2322
INCL    INCLM: 514/381.000
        INCLS: 514/382.000; 514/396.000; 514/397.000; 514/437.000; 514/438.000;
               424/093.700; 514/618.000; 514/631.000
NCL     NCLM:  514/381.000
        NCLS:  514/382.000; 514/396.000; 514/397.000; 514/437.000; 514/438.000;
               424/093.700; 514/618.000; 514/631.000
IC      [7]
        ICM: A61K045-00
        ICS: A61K031-4178; A61K031-41; A61K031-382; A61K031-381
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 122 OF 269  USPATFULL on STN
AN      2002:85211  USPATFULL
TI      COMMON NEURAL PROGENITOR FOR THE CNS AND PNS
IN      RAO, MAHENDRA S., SALT LAKE CITY, UT, UNITED STATES
        MUJTABA, TAHMINA, SANDY, UT, UNITED STATES
PI      US 2002045251       A1    20020418
AI      US 1998-73881       A1    19980506 (9)
RLI     Continuation-in-part of Ser. No. US 1997-852744, filed on 7 May 1997,
        PENDING
DT      Utility
FS      APPLICATION
LN.CNT  2636
INCL    INCLM: 435/325.000
        INCLS: 435/368.000; 435/373.000; 435/387.000; 435/384.000; 435/383.000;
               435/391.000; 435/395.000; 435/402.000; 435/377.000
NCL     NCLM:  435/325.000
        NCLS:  435/368.000; 435/373.000; 435/387.000; 435/384.000; 435/383.000;
               435/391.000; 435/395.000; 435/402.000; 435/377.000
IC      [7]
        ICM: C12N005-08
        ICS: C12N005-06
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L5   ANSWER 123 OF 269  USPATFULL on STN
AN     2002:72587  USPATFULL
TI     Neural progenitor cell populations
IN     Carpenter, Melissa K., Castro Valley, CA, UNITED STATES
PI     US 2002039724       A1   20020404
AI     US 2001-872183      A1   20010531 (9)
RLI    Division of Ser. No. WO 2001-US15861, filed on 16 May 2001, UNKNOWN
       Division of Ser. No. US 2001-859351, filed on 16 May 2001, PENDING
PRAI   US 2000-205600P      20000517 (60)
       US 2000-257608P      20001222 (60)
DT     Utility
FS     APPLICATION
LN.CNT 1846
INCL   INCLM: 435/004.000
       INCLS: 435/368.000
NCL    NCLM:  435/004.000
       NCLS:  435/368.000
IC     [7]
       ICM: C12Q001-00
       ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 124 OF 269  USPATFULL on STN
AN     2002:66630  USPATFULL
TI     Methods of transducing neural cells using lentivirus vectors
IN     Davidson, Beverly L., North Liberty, IA, UNITED STATES
       Alisky, Joseph M., Iowa City, IA, UNITED STATES
       Dubensky, Thomas W., JR., Piedmont, CA, UNITED STATES
       Hughes, Stephanie M., Iowa City, IA, UNITED STATES
       Jolly, Douglas, Encinitas, CA, UNITED STATES
       Sauter, Sybille L., Del Mar, CA, UNITED STATES
PI     US 2002037281       A1   20020328
AI     US 2001-866532      A1   20010525 (9)
PRAI   US 2000-207541P      20000526 (60)
       US 2001-279035P      20010327 (60)
DT     Utility
FS     APPLICATION
LN.CNT 1641
INCL   INCLM: 424/093.210
       INCLS: 435/456.000; 435/368.000
NCL    NCLM:  424/093.210
       NCLS:  435/456.000; 435/368.000
IC     [7]
       ICM: C12N015-867
       ICS: A61K048-00; C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 125 OF 269  USPATFULL on STN
AN     2002:54631  USPATFULL
TI     Enriched central nervous system stem cell and progenitor cell
       populations, and methods for identifying, isolating and enriching for
       such populations
IN     Uchida, Nobuko, Palo Alto, CA, UNITED STATES
       Buck, David W., Santa Clara, CA, UNITED STATES
       Weissman, Irving, Redwood City, CA, UNITED STATES
PI     US 2002031792       A1   20020314
AI     US 2001-927012      A1   20010809 (9)
RLI    Division of Ser. No. US 1999-422844, filed on 21 Oct 1999, PENDING
PRAI   US 1999-119725P      19990212 (60)
DT     Utility
FS     APPLICATION
LN.CNT 1160
INCL   INCLM: 435/007.210
       INCLS: 435/368.000
NCL    NCLM:  435/007.210
       NCLS:  435/368.000
IC     [7]
       ICM: G01N033-53
       ICS: G01N033-567; C12N005-08

L5   ANSWER 126 OF 269  USPATFULL on STN
AN     2002:48319  USPATFULL
TI     Human cord blood as a source of neural tissue for repair of the brain
       and spinal cord
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        Sanchez-Remos, Juan, Tampa, FL, UNITED STATES
        Willing, Alison, Tampa, FL, UNITED STATES
        Richard, Daniel D., Sedona, AZ, UNITED STATES
PI      US 2002028510       A1   20020307
AI      US 2001-801221      A1   20010307 (9)
PRAI    US 2000-188069P      20000309 (60)
        US 2001-269238P      20010216 (60)
DT      Utility
FS      APPLICATION
LN.CNT 3155
INCL    INCLM: 435/368.000
NCL     NCLM:  435/368.000
IC      [7]
        ICM: C12N005-08

L5   ANSWER 127 OF 269  USPATFULL on STN
AN      2002:42940  USPATFULL
TI      Novel interferon for the treatment of multiple sclerosis
IN      Croze, Edward M., Lafayette, CA, UNITED STATES
        Faulds, Daryl, Mill Valley, CA, UNITED STATES
        Wagner, T. Charis, Oakland, CA, UNITED STATES
PI      US 2002025304       A1   20020228
AI      US 2001-881050      A1   20011113 (9)
PRAI    US 2000-212046P      20000616 (60)
DT      Utility
FS      APPLICATION
LN.CNT 1842
INCL    INCLM: 424/085.600
NCL     NCLM:  424/085.600
IC      [7]
        ICM: A61K038-21
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 128 OF 269  USPATFULL on STN
AN      2002:37550  USPATFULL
TI      Methods of culturing embryonic stem cells and controlled differentiation
IN      Pera, Martin Frederick, Prahran, AUSTRALIA
PI      US 2002022267       A1   20020221
AI      US 2001-885679      A1   20010620 (9)
PRAI    AU 2000-1327         20001108
        AU 2000-8242         20000620
DT      Utility
FS      APPLICATION
LN.CNT 1207
INCL    INCLM: 435/366.000
NCL     NCLM:  435/366.000
IC      [7]
        ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 129 OF 269  USPATFULL on STN
AN      2002:32225  USPATFULL
TI      Direct differentiation of human pluripotent stem cells and
        characterization of differentiated cells
IN      Carpenter, Melissa K., Castro Valley, CA, UNITED STATES
        Funk, Walter D., Hayward, CA, UNITED STATES
        Thies, R. Scott, Pleasanton, CA, UNITED STATES
PI      US 2002019046       A1   20020214
AI      US 2001-888309      A1   20010621 (9)
PRAI    US 2000-213739P      20000622 (60)
        US 2000-216387P      20000707 (60)
        US 2000-220064P      20000721 (60)
DT      Utility
FS      APPLICATION
LN.CNT 2164
INCL    INCLM: 435/368.000
        INCLS: 435/091.100; 435/004.000
NCL     NCLM:  435/368.000
        NCLS:  435/091.100; 435/004.000
IC      [7]
        ICM: C12Q001-00
        ICS: C12N005-08; C12P019-34
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 130 OF 269  USPATFULL on STN
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TI   Method for isolating and purifying multipotential neural progenitor
        cells and multipotential neural progenitor cells
IN   Goldman, Steven A., South Salem, NY, UNITED STATES
        Okano, Hideyuki, Osaka, JAPAN
PI   US 2002012903   A1   20020131
AI   US 2000-747810   A1   20001222 (9)
PRAI   US 1999-173003P   19991223 (60)
DT   Utility
FS   APPLICATION
LN.CNT 2350
INCL   INCLM: 435/004.000
        INCLS: 435/368.000
NCL   NCLM: 435/004.000
        NCLS: 435/368.000
IC   [7]
        ICM: C12Q001-00
        ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 131 OF 269 USPATFULL on STN
AN   2002:16863 USPATFULL
TI   Neural progenitor cell populations
IN   Carpenter, Melissa K., Castro Valley, CA, UNITED STATES
PI   US 2002009743   A1   20020124
AI   US 2001-859351   A1   20010516 (9)
PRAI   US 2000-205600P   20000517 (60)
        US 2000-257608P   20001222 (60)
DT   Utility
FS   APPLICATION
LN.CNT 1895
INCL   INCLM: 435/006.000
        INCLS: 424/093.210; 435/368.000
NCL   NCLM: 435/006.000
        NCLS: 424/093.210; 435/368.000
IC   [7]
        ICM: A61K048-00
        ICS: C12Q001-68; C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 132 OF 269 USPATFULL on STN
AN   2002:16585 USPATFULL
TI   Porcine neural cells and their use in treatment of neurological deficits
        due to neurodegenerative diseases
IN   Isacson, Ole, Cambridge, MA, UNITED STATES
        Dinsmore, Jonathan, Brookline, MA, UNITED STATES
PA   Diacrin, Inc. (U.S. corporation)
PI   US 2002009461   A1   20020124
AI   US 2001-847881   A1   20010502 (9)
RLI   Division of Ser. No. US 1995-554779, filed on 7 Nov 1995, GRANTED, Pat.
        No. US 6258353 Continuation-in-part of Ser. No. US 1995-424851, filed on
        19 Apr 1995, GRANTED, Pat. No. US 6294383 Continuation-in-part of Ser.
        No. US 1994-336856, filed on 8 Nov 1994, ABANDONED
DT   Utility
FS   APPLICATION
LN.CNT 5037
INCL   INCLM: 424/193.100
        INCLS: 424/093.700; 435/325.000
NCL   NCLM: 424/193.100
        NCLS: 424/093.700; 435/325.000
IC   [7]
        ICM: A61K039-385
        ICS: C12N005-06; A61K045-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 133 OF 269 USPATFULL on STN
AN   2002:12280 USPATFULL
TI   GENETICALLY-MODIFIED NEURAL PROGENITORS AND USES THEREOF
IN   SABATE, OLIVIER, PARIS, FRANCE
        HORELLOU, PHILIPPE, PARIS, FRANCE
        BUC-CARON, MARIE-HELENE, PARIS, FRANCE
        MALLET, JACQUES, PARIS, FRANCE
PA   Rhone-Poulenc Rorer, S.A. (non-U.S. corporation)
PI   US 2002006660   A1   20020117
AI   US 1997-810315   A1   19970228 (8)
PRAI   US 1996-12635P   19960301 (60)

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FS      APPLICATION
LN.CNT 1048
INCL    INCLM: 435/325.000
        INCLS: 514/044.000
NCL     NCLM:  435/325.000
        NCLS:  514/044.000
IC      [7]
        ICM: C12N005-02
        ICS: A61K031-70
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 134 OF 269  USPATFULL on STN
AN      2002:8042  USPATFULL
TI      Methods for treating neurological deficits
IN      Reid, James Steven, Berkeley, CA, UNITED STATES
        Fallon, James H., Irvine, CA, UNITED STATES
PA      The Regents of the University of California, a California corporation
        (U.S. corporation)
PI      US 2002004039       A1   20020110
AI      US 2001-920085      A1   20010731 (9)
RLI     Continuation of Ser. No. US 1998-129028, filed on 4 Aug 1998, PENDING
PRAI    US 1997-55383P      19970804 (60)
DT      Utility
FS      APPLICATION
LN.CNT 2578
INCL    INCLM: 424/093.700
        INCLS: 435/368.000
NCL     NCLM:  424/093.700
        NCLS:  435/368.000
IC      [7]
        ICM: A61K045-00
        ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 135 OF 269  USPATFULL on STN
AN      2002:340241  USPATFULL
TI      Cultures of human CNS neural stem cells
IN      Carpenter, Melissa, Foster City, CA, United States
PA      Cytotherapeutics, Inc., Lincoln, RI, United States (U.S. corporation)
PI      US 6498018          B1   20021224
        WO 9911758  19990311
AI      US 2000-486302           20001016 (9)
        WO 1998-US18597          19980904
                                 20001016  PCT 371 date
RLI     Continuation-in-part of Ser. No. US 1997-926313, filed on 5 Sep 1997,
        now patented, Pat. No. US 5968829
DT      Utility
FS      GRANTED
LN.CNT 1113
INCL    INCLM: 435/029.000
        INCLS: 435/368.000
NCL     NCLM:  435/029.000
        NCLS:  435/368.000
IC      [7]
        ICM: C12Q001-02
EXF     435/4; 435/368; 435/6; 435/29; 435/467
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 136 OF 269  USPATFULL on STN
AN      2002:340140  USPATFULL
TI      Neural transplantation using proliferated multipotent neural stem cells
        and their progeny
IN      Weiss, Samuel, Alberta, CANADA
        Reynolds, Brent, Alberta, CANADA
        Hammang, Joseph P., Barrington, RI, United States
        Baetge, E. Edward, Barrington, RI, United States
PA      NeuroSpheres Holdings Ltd., Calgary, CANADA (non-U.S. corporation)
PI      US 6497872          B1   20021224
AI      US 1995-486313           19950607 (8)
RLI     Continuation-in-part of Ser. No. US 1994-270412, filed on 5 Jul 1994,
        now abandoned Continuation of Ser. No. US 1991-726812, filed on 8 Jul
        1991, now abandoned Continuation of Ser. No. US 486313
        Continuation-in-part of Ser. No. US 1995-385404, filed on 7 Feb 1995,
        now abandoned Continuation of Ser. No. US 1992-961813, filed on 16 Oct
        1992, now abandoned Continuation-in-part of Ser. No. US 726812
```

No. US 1994-359945, filed on 20 Dec 1994, now abandoned Continuation of Ser. No. US 1994-221655, filed on 1 Apr 1994, now abandoned Continuation of Ser. No. US 1992-967622, filed on 28 Oct 1992, now abandoned Continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991, now abandoned Continuation-in-part of Ser. No. US 486313 Continuation-in-part of Ser. No. US 1995-376062, filed on 20 Jan 1995, now abandoned Continuation of Ser. No. US 1993-10829, filed on 29 Jan 1993, now abandoned Continuation-in-part of Ser. No. US 726812 Continuation-in-part of Ser. No. US 486313 Continuation-in-part of Ser. No. US 1993-149508, filed on 9 Nov 1993, now abandoned Continuation-in-part of Ser. No. US 726812 Continuation-in-part of Ser. No. US 486313 Continuation-in-part of Ser. No. US 1994-311099, filed on 23 Sep 1994, now abandoned Continuation-in-part of Ser. No. US 726812 Continuation-in-part of Ser. No. US 486313 Continuation-in-part of Ser. No. US 1994-338730, filed on 14 Nov 1994, now abandoned Continuation-in-part of Ser. No. US 726812

DT Utility
FS GRANTED
LN.CNT 4223
INCL INCLM: 424/093.100
INCLS: 424/093.200; 424/093.210
NCL NCLM: 424/093.100
NCLS: 424/093.200; 424/093.210
IC [7]
ICM: A01N063-00
ICS: A01N065-00; A61K048-00
EXF 424/93.1; 424/93.2; 424/93.21; 514/44
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 137 OF 269 USPATFULL on STN
AN 2002:275940 USPATFULL
TI Enriched central nervous system stem cell and progenitor cell populations, and methods for identifying, isolating and enriching for such populations
IN Uchida, Nobuko, Palo Alto, CA, United States
Buck, David W., Santa Clara, CA, United States
Weissman, Irving, Redwood City, CA, United States
PA StemCells, Inc., Palo Alto, CA, United States (U.S. corporation)
PI US 6468794 B1 20021022
AI US 1999-422844 19991021 (9)
PRAI US 1999-119725P 19990212 (60)
DT Utility
FS GRANTED
LN.CNT 996
INCL INCLM: 435/368.000
INCLS: 435/343.000
NCL NCLM: 435/368.000
NCLS: 435/343.000
IC [7]
ICM: C12N005-08
EXF 435/332; 435/368; 435/343; 435/335; 424/93.7; 424/140.1; 424/153.1

L5 ANSWER 138 OF 269 USPATFULL on STN
AN 2002:129781 USPATFULL
TI Multipotent neural stem cell cDNA libraries
IN Weiss, Samuel, Calgary, CANADA
Reynolds, Brent, Saltspring, CANADA
PA Neurospheres Holdings Ltd., Calgary, CANADA (non-U.S. corporation)
PI US 6399369 B1 20020604
AI US 1995-484203 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1994-270412, filed on 5 Jul 1994, now abandoned Continuation of Ser. No. US 1991-726812, filed on 8 Jul 1991, now abandoned Continuation-in-part of Ser. No. US 1995-385404, filed on 7 Feb 1995, now abandoned Continuation of Ser. No. US 1992-961813, filed on 16 Oct 1992, now abandoned Continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991, now abandoned Continuation-in-part of Ser. No. US 1994-359945, filed on 20 Dec 1994, now abandoned Continuation of Ser. No. US 1994-221655, filed on 1 Apr 1994, now abandoned Continuation of Ser. No. US 1992-967622, filed on 28 Oct 1992, now abandoned Continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991 Continuation-in-part of Ser. No. US 1995-376062, filed on 20 Jan 1995, now abandoned Continuation of Ser. No. US 1993-10829, filed on 29 Jan 1993 Continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991, now abandoned Continuation-in-part of Ser. No. US 1993-149508, filed on 9 Nov 1993, now abandoned

No. US 1994-311099, filed on 23 Sep 1994, now abandoned
Continuation-in-part of Ser. No. US 726812 Continuation-in-part of Ser.
No. US 1994-338730, filed on 14 Nov 1994, now abandoned
Continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991,
now abandoned
DT Utility
FS GRANTED
LN.CNT 3847
INCL INCLM: 435/320.100
INCLS: 536/023.500; 536/023.100; 435/368.000; 435/006.000; 435/091.100;
935/080.000
NCL NCLM: 435/320.100
NCLS: 435/006.000; 435/091.100; 435/368.000; 536/023.100; 536/023.500
IC [7]
ICM: C12N015-66
ICS: C12N015-12; C12Q001-68
EXF 536/23.1; 536/23.5; 435/320.1; 435/6; 435/91.1; 435/368; 935/80
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 139 OF 269 USPATFULL on STN
AN 2002:116464 USPATFULL
TI Mx-1 conditionally immortalized cells
IN Hammang, Joseph P., Barrington, RI, United States
Messing, Albee, Madison, WI, United States
PA Neurotech S.A., Evry, FRANCE (non-U.S. corporation)
PI US 6392118 B1 20020521
AI US 1995-447997 19950523 (8)
RLI Division of Ser. No. US 1995-432698, filed on 9 May 1995, now patented,
Pat. No. US 5843431 Continuation-in-part of Ser. No. US 1994-279773,
filed on 20 Jul 1994, now patented, Pat. No. US 5935849
DT Utility
FS GRANTED
LN.CNT 2266
INCL INCLM: 800/014.000
INCLS: 435/320.100; 435/455.000; 435/325.000; 424/093.210; 800/025.000
NCL NCLM: 800/014.000
NCLS: 424/093.210; 435/320.100; 435/325.000; 435/455.000; 800/025.000
IC [7]
ICM: A01K067-027
ICS: C12N005-00; C12N015-00
EXF 435/325; 435/320.1; 435/455; 536/23.72; 536/23.1; 536/24.1; 536/23.51;
536/23.52; 536/23.2; 536/23.5; 935/6; 935/9; 935/11; 935/13; 935/14;
935/15; 935/22; 935/32; 935/66; 935/70; 935/71; 800/2; 800/DIG.1; 800/18
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 140 OF 269 USPATFULL on STN
AN 2002:63733 USPATFULL
TI Neuroepithelial stem cells and glial-restricted intermediate precursors
IN Rao, Mahendra S., Salt Lake City, UT, United States
Mayer-Proschel, Margot, Sandy, UT, United States
PA University of Utah Research Foundation, Salt Lake City, UT, United
States (U.S. corporation)
PI US 6361996 B1 20020326
AI US 1997-852744 19970507 (8)
DT Utility
FS GRANTED
LN.CNT 1491
INCL INCLM: 435/353.000
INCLS: 435/325.000
NCL NCLM: 435/353.000
NCLS: 435/325.000
IC [7]
ICM: C12N005-06
EXF 435/325; 435/368; 435/353
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 141 OF 269 USPATFULL on STN
AN 2002:13912 USPATFULL
TI Human cell lines
IN Stringer, Bradley Michael John, Cardiff, UNITED KINGDOM
PA CellFactors plc, Cambridge, UNITED KINGDOM (non-U.S. corporation)
PI US 6340592 B1 20020122
AI US 2000-694203 20001023 (9)
RLI Division of Ser. No. US 1999-390161, filed on 3 Sep 1999, now patented,
Pat. No. US 6197585 Continuation of Ser. No. US 836440, now abandoned

GB 1995-10555 19950524
DT Utility
FS GRANTED
LN.CNT 932
INCL INCLM: 435/372.000
INCLS: 435/325.000; 435/366.000; 435/375.000; 435/440.000; 435/455.000; 435/467.000; 536/023.100; 536/023.700; 536/023.720
NCL NCLM: 435/372.000
NCLS: 435/325.000; 435/366.000; 435/375.000; 435/440.000; 435/455.000; 435/467.000; 536/023.100; 536/023.700; 536/023.720
IC [7]
ICM: C12N015-85
ICS: C12N015-00; C12N015-11; C07H021-04
EXF 435/6; 435/69.1; 435/91.1; 435/440; 435/455; 435/467; 435/325; 435/366; 435/368; 435/372; 435/375; 435/320.1; 536/23.1; 536/23.7; 536/23.72
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 142 OF 269 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 28
AN 2003:340733 CAPLUS
DN 140:91283
TI Study on culture and differentiation of BMSC from Macaca irus
AU Li, Gang; Ke, Yiquan; Jiang, Xiaodan; Xu, Ruxiang; Wang, Wei; Zou, Yuxi
CS Zhujiang Hospital, First Military Medical University, Canton, 510282, Peop. Rep. China
SO Jiefangjun Yixue Zazhi (2002), 27(11), 956-958
CODEN: CFCHBN; ISSN: 0577-7402
PB Jenminjun Chubanshe
DT Journal
LA Chinese

L5 ANSWER 143 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 29
AN 2002:402838 BIOSIS
DN PREV200200402838
TI Neurogenic differentiation of murine and human adipose-derived stromal cells.
AU Safford, Kristine M.; Hicok, Kevin C.; Safford, Shawn D.; Halvorsen, Yuan-Di C.; Wilkison, William O.; Gimble, Jeffrey M.; Rice, Henry E. [Reprint author]
CS Department of Surgery, Division of Pediatric Surgery, Duke University Medical Center, Box 3815, Durham, NC, 27710, USA
rice0017@mc.duke.edu
SO Biochemical and Biophysical Research Communications, (June 7, 2002) Vol. 294, No. 2, pp. 371-379. print.
CODEN: BBRCA9. ISSN: 0006-291X.
DT Article
LA English
ED Entered STN: 24 Jul 2002
Last Updated on STN: 29 Aug 2002

L5 ANSWER 144 OF 269 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 30
AN 2002083839 EMBASE
TI Intrathecal administration of epidermal growth factor and fibroblast growth factor 2 promotes ependymal proliferation and functional recovery after spinal cord injury in adult rats.
AU Kojima A.; Tator C.H.
CS Dr. C.H. Tator, Toronto Western Hospital, 399 Bathurst Street, Toronto, Ont. M5T 2S8, Canada. charles.tator@uhn.on.ca
SO Journal of Neurotrauma, (2002) 19/2 (223-238).
Refs: 66
ISSN: 0897-7151 CODEN: JNEUE4
CY United States
DT Journal; Article
FS 008 Neurology and Neurosurgery
037 Drug Literature Index
LA English
SL English

L5 ANSWER 145 OF 269 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN DUPLICATE
AN 2002:35102297 BIOTECHNO
TI Human cortical glial tumors contain neural stem-like cells expressing astroglial and neuronal markers in vitro
AU Ignatova T.N.; Kukekov V.G.; Laywell E.D.; Suslov O.N.; Vrionis F.D.;

CS   Dr. D.A. Steindler, McKnight Brain Institute, Shands Cancer/Prog. Stem
      Cell Bio., University of Florida, 100 S. Newell Drive, Gainesville, FL
      32610, United States.
      E-mail: steindler@mbi.ufl.edu
SO   GLIA, (2002), 39/3 (193-206), 66 reference(s)
      CODEN: GLIAEJ ISSN: 0894-1491
DT   Journal; Article
CY   United States
LA   English
SL   English

L5   ANSWER 146 OF 269   MEDLINE on STN
AN   2002461734   MEDLINE
DN   PubMed ID: 12220703
TI   Enhanced viability and neuronal differentiation of neural progenitors by
      chromaffin cell co-culture.
AU   Schumm Michael A; Castellanos Daniel A; Frydel Beata R; Sagen Jacqueline
CS   The Miami Project to Cure Paralysis, University of Miami School of
      Medicine, Lois Pope Life Center, 1095 NW 14th Terrace (R-48), Miami, FL
      33136, USA.
NC   NS25054 (NINDS)
SO   Brain research. Developmental brain research, (2002 Aug 30) 137 (2)
      115-25.
      Journal code: 8908639. ISSN: 0165-3806.
CY   Netherlands
DT   Journal; Article; (JOURNAL ARTICLE)
LA   English
FS   Priority Journals
EM   200211
ED   Entered STN: 20020911
      Last Updated on STN: 20021214
      Entered Medline: 20021126

L5   ANSWER 147 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN   2002:478638 BIOSIS
DN   PREV200200478638
TI   A method for clonal analysis of epidermal growth factor-responsive neural
      progenitors.
AU   Engstrom, Caron M.; Demers, Delia; Dooner, Mark; McAuliffe, Christina;
      Benoit, Brian O.; Stencel, Kimberly; Joly, Marguerite; Hulspas, Ruud;
      Reilly, Judith L.; Savarese, Todd; Recht, Lawrence D.; Ross, Alonzo H.;
      Quesenberry, Peter J. [Reprint author]
CS   Department of Neurology and Department of Pharmacology and Molecular
      Toxicology, Cancer Center, University of Massachusetts Medical Center,
      Worcester, MA, USA
      pquesenberry@rwmc.org
SO   Journal of Neuroscience Methods, (30 June, 2002) Vol. 117, No. 2, pp.
      111-121. print.
      CODEN: JNMEDT. ISSN: 0165-0270.
DT   Article
LA   English
ED   Entered STN: 11 Sep 2002
      Last Updated on STN: 11 Sep 2002

L5   ANSWER 148 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN   2002:446135 BIOSIS
DN   PREV200200446135
TI   Monkey embryonic stem cell-derived embryoid bodies, neural progenitor
      cells, and neural phenotypes.
AU   Kuo, Hung-Chih [Reprint author]; Pau, K.-Y. Francis [Reprint author];
      Mitalipov, Shoukhrat M. [Reprint author]; Okano, Hideyuki; Wolf, Don P.
      [Reprint author]
CS   Division of Reproductive Sciences, Oregon Regional Primate Research
      Center, Oregon Health and Science University, West Campus, Beaverton, OR,
      USA
SO   Biology of Reproduction, (2002) Vol. 66, No. Supplement 1, pp. 106. print.
      Meeting Info.: 35th Annual Meeting of the Society for the Study of
      Reproduction. Baltimore, Maryland, USA. July 28-31, 2002.
      CODEN: BIREBV. ISSN: 0006-3363.
DT   Conference; (Meeting)
      Conference; Abstract; (Meeting Abstract)
LA   English
ED   Entered STN: 21 Aug 2002
      Last Updated on STN: 21 Aug 2002

AN 2002:548099 CAPLUS
DN 138:70372
TI Human neural precursor cells - an in vitro characterization
AU Mayer-Proschel, Margot; Liu, Ying; Xue, Haipeng; Wu, Yuanyuan; Carpenter, Melissa K.; Rao, Mahendra S.
CS 601 Elmwood Avenue, Department of Biomedical Genetics, University of Rochester, Box 633, Rochester, NY, 14642, USA
SO Clinical Neuroscience Research (2002), 2(1-2), 58-69
CODEN: CNRLBU; ISSN: 1566-2772
PB Elsevier Science Ltd.
DT Journal
LA English
RE.CNT 75 THERE ARE 75 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 150 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:165173 BIOSIS
DN PREV200300165173
TI Rat Neural Stem Cells (rNSC) Differentiate in Vitro into Cytokeratin-positive Cells.
AU Enzmann, V. [Reprint Author]; Howard, R. M.; Whittemore, S. R.; Kaplan, H. J. [Reprint Author]
CS Ophthalmology, University of Louisville, Louisville, KY, USA
SO ARVO Annual Meeting Abstract Search and Program Planner, (2002) Vol. 2002, pp. Abstract No. 3691. cd-rom.
Meeting Info.: Annual Meeting of the Association For Research in Vision and Ophthalmology. Fort Lauderdale, Florida, USA. May 05-10, 2002.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 2 Apr 2003
Last Updated on STN: 2 Apr 2003

L5 ANSWER 151 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:155181 BIOSIS
DN PREV200300155181
TI Characterization Of Potential Stem Cells From Human Conjunctiva.
AU Shatos, M. A. [Reprint Author]; Rubin, P.; Chang, E.; Dartt, D. A. [Reprint Author]
CS Schepens Eye Research Institute, Boston, MA, USA
SO ARVO Annual Meeting Abstract Search and Program Planner, (2002) Vol. 2002, pp. Abstract No. 3159. cd-rom.
Meeting Info.: Annual Meeting of the Association For Research in Vision and Ophthalmology. Fort Lauderdale, Florida, USA. May 05-10, 2002.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 26 Mar 2003
Last Updated on STN: 26 Mar 2003

L5 ANSWER 152 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:380099 BIOSIS
DN PREV200300380099
TI EXPRESSION OF DIFFERENTIATION ANTIGENS OF ***FGF*** RESPONSE NEURAL STEM CELLS IN ***EGF*** .
AU Yamanoha, B. [Reprint Author]; Nakayama, T. [Reprint Author]
CS Inst Life Sci, Soka Univ, Tokyo 192-8577, Japan
SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002) Vol. 2002, pp. Abstract No. 825.7. http://sfn.scholarone.com. cd-rom.
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience. Orlando, Florida, USA. November 02-07, 2002. Society for Neuroscience.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
Conference; (Meeting Poster)
LA English
ED Entered STN: 20 Aug 2003
Last Updated on STN: 20 Aug 2003

L5 ANSWER 153 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:326068 BIOSIS
DN PREV200300326068
TI CULTIVATION AND CHARACTERIZATION OF ADULT HUMAN NEURAL STEM CELLS.
AU Westerlund, U. [Reprint Author]; Ohlsson, M. [Reprint Author]; Gustavsson, B. [Reprint Author]; Svensson, M. [Reprint Author]
CS Dept fo Neurosurg, Ins of Clinical Neurosci, Stockholm, Sweden

Vol. 2002, pp. Abstract No. 726.5. http://sfn.scholarone.com. cd-rom.
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience. Orlando, Florida, USA. November 02-07, 2002. Society for Neuroscience.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 16 Jul 2003
Last Updated on STN: 16 Jul 2003

L5 ANSWER 154 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:326074 BIOSIS
DN PREV200300326074
TI NEUROSPHERE FORMATION OF NTERA-2 CELLS GROWN IN SERUM-FREE MEDIUM:COMPARISON WITH NEUROSPHERES DERIVED FROM MOUSE NEURAL STEM CELLS.
AU Marchal, S. [Reprint Author]; Deleyrolle, L. [Reprint Author]; Dromard, C. [Reprint Author]; De Weille, J. [Reprint Author]; Gaviria, M. A. [Reprint Author]; Saunier, M. [Reprint Author]; Privat, A. [Reprint Author]; Hugnot, J. P. [Reprint Author]
CS INSERM U336, Montpellier, France
SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002) Vol. 2002, pp. Abstract No. 726.12. http://sfn.scholarone.com. cd-rom.
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience. Orlando, Florida, USA. November 02-07, 2002. Society for Neuroscience.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 16 Jul 2003
Last Updated on STN: 16 Jul 2003

L5 ANSWER 155 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:315346 BIOSIS
DN PREV200300315346
TI TRANSDIFFERENTIATION OF BONE MARROW STROMAL CELLS INTO NEURON - LIKE CELLS.
AU Sanchez-Ramos, J. [Reprint Author]; Song, S. [Reprint Author]; Kamath, T. [Reprint Author]; Mosquera, D. [Reprint Author]; DeMesquita, D. [Reprint Author]; Zigova, T.
CS Neurology, Neurosurgery, Center for Aging and Brain Repair, University of South Florida, Tampa, FL, USA
SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002) Vol. 2002, pp. Abstract No. 618.10. http://sfn.scholarone.com. cd-rom.
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience. Orlando, Florida, USA. November 02-07, 2002. Society for Neuroscience.
DT Conference; (Meeting)
Conference; (Meeting Poster)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 9 Jul 2003
Last Updated on STN: 9 Jul 2003

L5 ANSWER 156 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:305320 BIOSIS
DN PREV200300305320
TI ABERRANT GROWTH AND DIFFERENTIATION OF CNS GLIAL PROGENITORS IN NEUROFIBROMATOSIS TYPE 1 MUTANTS.
AU Bennett, M. R. [Reprint Author]; Rizvi, T. A.; Karyala, S.; McKinnon, R. D.; Ratner, N.
CS Neuroscience Graduate Program, University of Cincinnati College of Medicine, Cincinnati, OH, USA
SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002) Vol. 2002, pp. Abstract No. 524.10. http://sfn.scholarone.com. cd-rom.
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience. Orlando, Florida, USA. November 02-07, 2002. Society for Neuroscience.
DT Conference; (Meeting)
Conference; (Meeting Poster)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 2 Jul 2003
Last Updated on STN: 2 Jul 2003

L5 ANSWER 157 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:303866 BIOSIS
DN PREV200300303866
TI BASIC ***FGF*** STIMULATES PROLIFERATION OF NEURONAL PRECURSORS IN HIPPOCAMPAL PROGENITOR CELL CULTURES.

[Reprint Author]; Mattson, M. P. [Reprint Author]
CS Natl Inst Aging (NIH), Baltimore, MD, USA
SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002) Vol. 2002, pp. Abstract No. 421.4. http://sfn.scholarone.com. cd-rom.
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience. Orlando, Florida, USA. November 02-07, 2002. Society for Neuroscience.
DT Conference; (Meeting)
Conference; (Meeting Poster)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 2 Jul 2003
Last Updated on STN: 2 Jul 2003

L5 ANSWER 158 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:268093 BIOSIS
DN PREV200300268093
TI GENERATION OF RADIAL GLIA IN THE ADULT FOREBRAIN.
AU Gregg, C. T. [Reprint Author]; Weiss, S. [Reprint Author]
CS Genes and Dev Res Grp, Univ Calgary, Calgary, AB, Canada
SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002) Vol. 2002, pp. Abstract No. 25.3. http://sfn.scholarone.com. cd-rom.
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience. Orlando, Florida, USA. November 02-07, 2002. Society for Neuroscience.
DT Conference; (Meeting)
Conference; (Meeting Poster)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 11 Jun 2003
Last Updated on STN: 11 Jun 2003

L5 ANSWER 159 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:267810 BIOSIS
DN PREV200300267810
TI DIFFERENTIATION OF NEURAL PRECURSORS FROM RHESUS MONKEY EMBRYONIC STEM CELLS.
AU Piscitelli, G. M. [Reprint Author]; Zhang, S. C. [Reprint Author]
CS Neuroscience Training Program, Anatomy, Neurology, Waisman Center, Univ Wisconsin Madison, Madison, WI, USA
SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002) Vol. 2002, pp. Abstract No. 7.5. http://sfn.scholarone.com. cd-rom.
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience. Orlando, Florida, USA. November 02-07, 2002. Society for Neuroscience.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 11 Jun 2003
Last Updated on STN: 11 Jun 2003

L5 ANSWER 160 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:336377 BIOSIS
DN PREV200300336377
TI Ex Vivo Differentiation of Mouse Multipotent Adult Progenitor Cells (mMAPC) into Functional Dopaminergic Neurons.
AU Jiang, Yuehua [Reprint Author]; Henderson, Dori [Reprint Author]; Blackstedt, Mark [Reprint Author]; Chen, Angel [Reprint Author]; Lisberg, Aaron [Reprint Author]; Miller, Robert F. [Reprint Author]; Verfaillie, Catherine M. [Reprint Author]
CS Stem Cell Institute and Department of Medicine, University of Minnesota, Minneapolis, MN, USA
SO Blood, (November 16 2002) Vol. 100, No. 11, pp. Abstract No. 95. print.
Meeting Info.: 44th Annual Meeting of the American Society of Hematology. Philadelphia, PA, USA. December 06-10, 2002. American Society of Hematology.
CODEN: BLOOAW. ISSN: 0006-4971.
DT Conference; (Meeting)
Conference; (Meeting Poster)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 23 Jul 2003
Last Updated on STN: 23 Jul 2003

L5 ANSWER 161 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:336715 BIOSIS
DN PREV200300336715
TI Expression of Neuron Specific Markers on Human Marrow Derived Mesenchymal

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AU    Tondreau, Tatiana [Reprint Author]; Lagneaux, Laurence [Reprint Author];
      Delforge, Alain [Reprint Author]; Bron, Dominique [Reprint Author]
CS    Laboratory of Experimental Hematology, J. Bordet Institute, Brussels,
      Belgium
SO    Blood, (November 16 2002) Vol. 100, No. 11, pp. Abstract No. 2017. print.
      Meeting Info.: 44th Annual Meeting of the American Society of Hematology.
      Philadelphia, PA, USA. December 06-10, 2002. American Society of
      Hematology.
      CODEN: BLOOAW. ISSN: 0006-4971.
DT    Conference; (Meeting)
      Conference; Abstract; (Meeting Abstract)
      Conference; (Meeting Poster)
LA    English
ED    Entered STN: 23 Jul 2003
      Last Updated on STN: 23 Jul 2003

L5    ANSWER 162 OF 269  CAPLUS  COPYRIGHT 2004 ACS on STN DUPLICATE 32
AN    2001:597812  CAPLUS
DN    135:164458
TI    Isolation and transplantation of retinal stem cells
IN    Young, Michael J.; Klassen, Henry; Shatos, Marie A.; Mizumoto, Keiko
PA    Schepens Eye Research Institute, Inc., USA
SO    PCT Int. Appl., 56 pp.
      CODEN: PIXXD2
DT    Patent
LA    English
FAN.CNT 1
      PATENT NO.         KIND  DATE         APPLICATION NO.   DATE
      ---------------    ----  --------     ---------------   --------
PI    WO 2001058460      A1    20010816     WO 2001-US4419    20010212
          W:  AU, CA, JP, US
          RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
              PT, SE, TR
      EP 1261357         A1    20021204     EP 2001-907195    20010212
          R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, FI, CY, TR
      JP 2003521910      T2    20030722     JP 2001-557570    20010212
      US 2003207450      A1    20031106     US 2002-203105    20020806
PRAI  US 2000-181723P    P     20000211
      WO 2001-US4419     W     20010212
RE.CNT  4       THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
                ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5    ANSWER 163 OF 269  CAPLUS  COPYRIGHT 2004 ACS on STN DUPLICATE 33
AN    2001:320076  CAPLUS
DN    134:323129
TI    Cultures of   ***GFAP***  +   ***nestin***  + cells that differentiate to
      neurons
IN    Wahlberg, Lars; Campbell, Kenneth; Fagerstrom, Charlotta; Eriksson,
      Cecelia; Wictorin, Klas
PA    Ns Gene A/s, Den.
SO    PCT Int. Appl., 64 pp.
      CODEN: PIXXD2
DT    Patent
LA    English
FAN.CNT 1
      PATENT NO.         KIND  DATE         APPLICATION NO.   DATE
      ---------------    ----  --------     ---------------   --------
PI    WO 2001030981      A1    20010503     WO 2000-IB1669    20001025
          W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
              HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
              LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
              SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
              YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
              DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
              CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
      EP 1228195         A1    20020807     EP 2000-973148    20001025
          R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL
PRAI  US 1999-161316P    P     19991025
      WO 2000-IB1669     W     20001025
RE.CNT  11      THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
                ALL CITATIONS AVAILABLE IN THE RE FORMAT
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L5    ANSWER 164 OF 269  USPATFULL on STN                    DUPLICATE 34
AN       2001:211931  USPATFULL
TI       Mx-1 conditionally immortalized cells
IN       Schinstine, Malcolm, Ben Salem, PA, United States
         Shoichet, Molly S., Toronto, Canada
         Gentile, Frank T., Warwick, RI, United States
         Hammang, Joseph P., Barrington, RI, United States
         Holland, Laura M., Horsham, PA, United States
         Cain, Brian M., Everett, MA, United States
         Doherty, Edward J., Mansfield, MA, United States
         Winn, Shelley R., Smithfield, RI, United States
         Aebischer, Patrick, Lutry, Switzerland
PI       US 2001043923       A1    20011122
         US 6495364          B2    20021217
AI       US 2001-801237      A1    20010307 (9)
RLI      Continuation of Ser. No. US 1995-447997, filed on 23 May 1995, PENDING
DT       Utility
FS       APPLICATION
LN.CNT 2069
INCL     INCLM: 424/093.210
NCL      NCLM:  435/320.100
         NCLS:  424/093.200; 435/325.000; 435/455.000; 514/044.000
IC       [7]
         ICM: A61K048-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 165 OF 269  USPATFULL on STN                    DUPLICATE 35
AN       2001:188429  USPATFULL
TI       Methods for isolation and activation of, and control of differentiation
         from, stem and progenitor cells
IN       Csete, Marie, South Pasadena, CA, United States
         Doyle, John, South Pasadena, CA, United States
         Wold, Barbara, San Marino, CA, United States
PA       California Institute of Technology (U.S. corporation)
PI       US 2001034061       A1    20011025
         US 6589728          B2    20030708
AI       US 2001-773824      A1    20010131 (9)
RLI      Division of Ser. No. US 1998-195569, filed on 18 Nov 1998, GRANTED, Pat.
         No. US 6184035
DT       Utility
FS       APPLICATION
LN.CNT 1176
INCL     INCLM: 435/377.000
         INCLS: 435/455.000; 435/004.000
NCL      NCLM:  435/004.000
         NCLS:  435/375.000; 435/377.000
IC       [7]
         ICM: C12Q001-00
         ICS: C12N005-08; C12N015-63; C12N015-85
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 166 OF 269  USPATFULL on STN
AN       2001:237692  USPATFULL
TI       Use of collagenase in the preparation of neural stem cell cultures
IN       Uchida, Nobuko, Palo Alto, CA, United States
PI       US 2001055808       A1    20011227
AI       US 2001-867330      A1    20010529 (9)
RLI      Continuation of Ser. No. US 1999-258529, filed on 26 Feb 1999, UNKNOWN
DT       Utility
FS       APPLICATION
LN.CNT 718
INCL     INCLM: 435/368.000
NCL      NCLM:  435/368.000
IC       [7]
         ICM: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 167 OF 269  USPATFULL on STN
AN       2001:223926  USPATFULL
TI       Human cell-lines
IN       Stringer, Bradley Michael John, Cyncoed, Great Britain
PI       US 2001049143       A1    20011206
AI       US 2001-837561      A1    20010418 (9)
RLI      Continuation of Ser. No. US 2000-693597, filed on 20 Oct 2000, PENDING
PRAI     GB 1994-22523            19941108
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DT   Utility
FS   APPLICATION
LN.CNT 928
INCL   INCLM: 435/455.000
        INCLS: 435/456.000; 435/366.000
NCL   NCLM: 435/455.000
        NCLS: 435/456.000; 435/366.000
IC   [7]
        ICM: C12N015-86
        ICS: C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 168 OF 269 USPATFULL on STN
AN   2001:212128 USPATFULL
TI   Enriched central nervous system stem cell and progenitor cell
        populations, and methods for identifying, isolating and enriching for
        such populations
IN   Buck, David W., Heathfield, Great Britain
        Uchida, Nobuko, Palo Alto, CA, United States
        Weissman, Irving, Redwood City, CA, United States
PI   US 2001044122   A1   20011122
AI   US 2001-792098   A1   20010223 (9)
RLI   Continuation-in-part of Ser. No. US 1999-422844, filed on 21 Oct 1999,
        PENDING
PRAI   US 1999-119725P   19990212 (60)
DT   Utility
FS   APPLICATION
LN.CNT 1357
INCL   INCLM: 435/007.210
        INCLS: 435/368.000
NCL   NCLM: 435/007.210
        NCLS: 435/368.000
IC   [7]
        ICM: G01N033-567
        ICS: C12N005-08

L5   ANSWER 169 OF 269 USPATFULL on STN
AN   2001:188204 USPATFULL
TI   Pleuripotent stem cells generated from adipose tissue-derived stromal
        cells and uses thereof
IN   Wilkison, William O., Bahama, NC, United States
        Gimble, Jeffrey, Chapel Hill, NC, United States
PI   US 2001033834   A1   20011025
AI   US 2001-793173   A1   20010226 (9)
PRAI   US 2000-185338P   20000226 (60)
DT   Utility
FS   APPLICATION
LN.CNT 1236
INCL   INCLM: 424/093.700
        INCLS: 424/093.210; 435/325.000; 435/366.000; 435/368.000; 435/372.000
NCL   NCLM: 424/093.700
        NCLS: 424/093.210; 435/325.000; 435/366.000; 435/368.000; 435/372.000
IC   [7]
        ICM: A61K048-00
        ICS: A01N063-00; A01N065-00; C12N005-00; C12N005-02; C12N005-08
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 170 OF 269 USPATFULL on STN
AN   2001:176389 USPATFULL
TI   Lineage restricted glial precursors from the central nervous system
IN   Rao, Mahendra S., Salt Lake City, UT, United States
        Noble, Mark, Brighton, NY, United States
        Mayer-Proschel, Margot, Pittsford, NY, United States
PI   US 2001029045   A1   20011011
AI   US 2001-736728   A1   20010316 (9)
RLI   Continuation of Ser. No. US 1997-980850, filed on 29 Nov 1997, GRANTED,
        Pat. No. US 6235527
DT   Utility
FS   APPLICATION
LN.CNT 1440
INCL   INCLM: 435/325.000
        INCLS: 424/093.700
NCL   NCLM: 435/325.000
        NCLS: 424/093.700
IC   [7]

ICS: C12N005-06

L5 ANSWER 171 OF 269 USPATFULL on STN
AN 2001:109775 USPATFULL
TI Compositions and methods for manipulating glial progenitor cells and treating neurological deficits
IN Reid, James Steven, Berkeley, CA, United States
Fallon, James H., Irvine, CA, United States
PI US 2001007657 A1 20010712
AI US 2000-739933 A1 20001218 (9)
RLI Continuation-in-part of Ser. No. US 1998-129028, filed on 4 Aug 1998, PENDING
PRAI US 1997-55383P 19970804 (60)
DT Utility
FS APPLICATION
LN.CNT 3303
INCL INCLM: 424/093.700
NCL NCLM: 424/093.700
IC [7]
ICM: A01N063-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 172 OF 269 USPATFULL on STN
AN 2001:89522 USPATFULL
TI Neural transplantation using pluripotent neuroepithelial cells
IN Sinden, John, London, Great Britain
Gray, Jeffrey A., London, Great Britain
Hodges, Helen, London, Great Britain
Kershaw, Timothy, London, Great Britain
Rashid-Doubell, Fiza, Oxford, Great Britain
PI US 2001001662 A1 20010524
AI US 2001-760274 A1 20010112 (9)
RLI Continuation of Ser. No. US 2000-672606, filed on 28 Sep 2000, UNKNOWN
PRAI GB 1995-18606 19950912
DT Utility
FS APPLICATION
LN.CNT 1036
INCL INCLM: 424/093.210
INCLS: 424/093.700
NCL NCLM: 424/093.210
NCLS: 424/093.700
IC [7]
ICM: A61K048-00
ICS: A01N063-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 173 OF 269 USPATFULL on STN
AN 2001:163016 USPATFULL
TI Use of multipotent neural stem cells and their progeny for the screening of drugs and other biological agents
IN Weiss, Samuel, Calgary, Canada
Reynolds, Brent, Calgary, Canada
Hammang, Joseph P., Barrington, RI, United States
Baetge, E. Edward, Barrington, RI, United States
PA Neurospheres Holdings, Ltd., Alberta, Canada (non-U.S. corporation)
PI US 6294346 B1 20010925
AI US 1995-484406 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1995-385404, filed on 7 Feb 1995, now abandoned , said Ser. No. US 484406 And Ser. No. US 1995-376062, filed on 20 Jan 1995, now abandoned , said Ser. No. US 484406 And Ser. No. US 1994-359945, filed on 20 Dec 1994, now abandoned , said Ser. No. US 484406 And Ser. No. US 1994-338730, filed on 14 Nov 1994, now abandoned , said Ser. No. US 484406 And Ser. No. US 1994-311099, filed on 23 Sep 1994, now abandoned , said Ser. No. US 484406 And Ser. No. US 1994-270412, filed on 5 Jul 1994, now abandoned , said Ser. No. US 484406 And Ser. No. US 1993-149508, filed on 9 Nov 1993, now abandoned Continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991, now abandoned Continuation of Ser. No. US 1992-961813, filed on 16 Oct 1992, now abandoned Continuation-in-part of Ser. No. US 726812 Continuation of Ser. No. US 1993-10829, filed on 29 Jan 1993, now abandoned Continuation-in-part of Ser. No. US 726812 Continuation of Ser. No. US 1994-221655, filed on 1 Apr 1994, now abandoned Continuation of Ser. No. US 1992-967622, filed on 28 Oct 1992, now abandoned Continuation-in-part of Ser. No. US 726812 , said Ser. No. US 338730 Continuation-in-part of Ser. No. US 726812 , said Ser. No. US 311099

Continuation-in-part of Ser. No. US 726812
DT Utility
FS GRANTED
LN.CNT 4153
INCL INCLM: 435/007.210
INCLS: 435/368.000; 435/377.000; 435/375.000
NCL NCLM: 435/007.210
NCLS: 435/368.000; 435/375.000; 435/377.000
IC [7]
ICM: G01N033-554
ICS: C12N005-00
EXF 435/7.21; 435/368; 435/378; 435/377; 435/375
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 174 OF 269 USPATFULL on STN
AN 2001:125969 USPATFULL
TI Cancer treatment by expression of differentiation factor receptor
IN Ross, Alonzo H., Shrewsbury, MA, United States
Recht, Lawrence D., Holden, MA, United States
Lachyankar, Mahesh B., Shrewsbury, MA, United States
PA University of Massachusetts Medical Center, Worcester, MA, United States (U.S. corporation)
Worcester Foundation for Biomedical Research, Shrewsbury, MA, United States (U.S. corporation)
PI US 6271205 B1 20010807
AI US 1997-815795 19970312 (8)
RLI Continuation-in-part of Ser. No. US 1994-310287, filed on 21 Sep 1994, now patented, Pat. No. US 5789187
PRAI US 1996-14466P 19960321 (60)
DT Utility
FS GRANTED
LN.CNT 1270
INCL INCLM: 514/044.000
INCLS: 435/320.100
NCL NCLM: 514/044.000
NCLS: 435/320.100
IC [7]
ICM: A61K031-711
ICS: C12N015-63
EXF 435/320.1; 435/172.1; 435/455; 424/93.2; 424/93.6; 424/93.21; 514/44
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 175 OF 269 USPATFULL on STN
AN 2001:116781 USPATFULL
TI Method for production of neuroblasts
IN Gage, Fred H., La Jolla, CA, United States
Ray, Jasodhara, San Diego, CA, United States
PA The Regents of the University of California, Oakland, CA, United States (U.S. corporation)
PI US 6265175 B1 20010724
AI US 1997-884427 19970627 (8)
RLI Continuation of Ser. No. US 1995-445075, filed on 19 May 1995, now abandoned Division of Ser. No. US 1993-147843, filed on 3 Nov 1993, now patented, Pat. No. US 5766948 Continuation-in-part of Ser. No. US 1993-1543, filed on 6 Jan 1993, now abandoned
DT Utility
FS GRANTED
LN.CNT 1506
INCL INCLM: 435/007.210
INCLS: 435/007.100; 435/007.200; 435/004.000; 435/029.000
NCL NCLM: 435/007.210
NCLS: 435/004.000; 435/007.100; 435/007.200; 435/029.000
IC [7]
ICM: C12Q001-02
ICS: G01N033-53
EXF 435/7.1; 435/7.2; 435/7.21; 435/4; 435/29

L5 ANSWER 176 OF 269 USPATFULL on STN
AN 2001:107439 USPATFULL
TI Porcine neural cells and their use in treatment of neurological deficits due to neurodegenerative diseases
IN Isacson, Ole, Cambridge, MA, United States
Dinsmore, Jonathan, Brookline, MA, United States
PA Diacrin, Inc., Charlestown, MA, United States (U.S. corporation)
PI US 6258353 B1 20010710

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RLI     Continuation-in-part of Ser. No. US 1995-424851, filed on 19 Apr 1995
        Continuation-in-part of Ser. No. US 1994-336856, filed on 8 Nov 1994,
        now abandoned
DT      Utility
FS      GRANTED
LN.CNT  5157
INCL    INCLM: 424/093.100
        INCLS: 424/093.700; 424/130.100; 424/143.100; 424/809.000; 435/325.000;
               435/368.000
NCL     NCLM:  424/093.100
        NCLS:  424/093.700; 424/130.100; 424/143.100; 424/809.000; 435/325.000;
               435/368.000
IC      [7]
        ICM: A01N003-00
        ICS: C12N015-85; C12N015-86; A61K039-395
EXF     424/93.7; 424/93.1; 424/130.1; 424/143.1; 424/809; 435/325; 435/368
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 177 OF 269  USPATFULL on STN
AN      2001:86268  USPATFULL
TI      Human embryonic germ cell line and methods of use
IN      Gearhart, John D., Baltimore, MD, United States
        Shamblott, Michael Joseph, Baltimore, MD, United States
PA      The Johns Hopkins University School of Medicine, Baltimore, MD, United
        States (U.S. corporation)
PI      US 6245566          B1    20010612
AI      US 1998-52772             19980331 (9)
RLI     Continuation-in-part of Ser. No. US 1997-989744, filed on 12 Dec 1997
        Continuation-in-part of Ser. No. US 1997-829372, filed on 31 Mar 1997
DT      Utility
FS      GRANTED
LN.CNT  1916
INCL    INCLM: 435/384.000
        INCLS: 435/383.000; 435/366.000
NCL     NCLM:  435/384.000
        NCLS:  435/366.000; 435/383.000
IC      [7]
        ICM: C12N005-02
        ICS: C12N005-00; C12N005-08
EXF     435/383; 435/384; 435/366; 435/372
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 178 OF 269  USPATFULL on STN
AN      2001:78948  USPATFULL
TI      Use of collagenase in the preparation of neural stem cell cultures
IN      Uchida, Nobuko, Palo Alto, CA, United States
PA      StemCells, Inc., Sunnyvale, CA, United States (U.S. corporation)
PI      US 6238922          B1    20010529
AI      US 1999-258529            19990226 (9)
DT      Utility
FS      Granted
LN.CNT  701
INCL    INCLM: 435/380.000
        INCLS: 435/381.000; 435/378.000; 435/368.000
NCL     NCLM:  435/380.000
        NCLS:  435/368.000; 435/378.000; 435/381.000
IC      [7]
        ICM: C12N005-02
EXF     435/368; 435/378; 435/380; 435/381
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 179 OF 269  USPATFULL on STN
AN      2001:75180  USPATFULL
TI      Lineage restricted glial precursors from the central nervous system
IN      Rao, Mahendra S., Salt Lake City, UT, United States
        Noble, Mark, Sandy, UT, United States
        Mayer-Proschel, Margot, Sandy, UT, United States
PA      University of Utah Research Foundation, Salt Lake City, UT, United
        States (U.S. corporation)
PI      US 6235527          B1    20010522
AI      US 1997-980850            19971129 (8)
DT      Utility
FS      Granted
LN.CNT  1297
INCL    INCLM: 435/325.000
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NCL     NCLM:  435/325.000
        NCLS:  435/368.000; 435/378.000; 435/395.000; 435/402.000
IC      [7]
        ICM: C12N005-06
        ICS: C12N005-08
EXF     435/325; 435/368; 435/378; 435/395; 435/402; 424/93.21

L5    ANSWER 180 OF 269  USPATFULL on STN
AN      2001:33082  USPATFULL
TI      Human cell-lines
IN      Stringer, Bradley Michael John, Cardiff, United Kingdom
PA      CellFactors plc, Cambridge, United Kingdom (non-U.S. corporation)
PI      US 6197585          B1    20010306
AI      US 1999-390161            19990903 (9)
RLI     Continuation of Ser. No. US 836440, now abandoned
PRAI    GB 1994-22523       19941108
        GB 1995-10555       19950524
DT      Utility
FS      Granted
LN.CNT 934
INCL    INCLM: 435/368.000
        INCLS: 435/325.000; 435/366.000; 435/375.000; 435/440.000; 435/455.000;
               435/467.000; 536/023.100; 536/023.700; 536/023.720
NCL     NCLM:  435/368.000
        NCLS:  435/325.000; 435/366.000; 435/375.000; 435/440.000; 435/455.000;
               435/467.000; 536/023.100; 536/023.700; 536/023.720
IC      [7]
        ICM: C12N015-85
        ICS: C12N015-00; C12N015-11; C07H021-04
EXF     435/6; 435/69.1; 435/91.1; 435/440; 435/455; 435/325; 435/366; 435/368;
        435/372; 435/375; 435/320.1; 435/467; 536/23.1; 536/23.72; 536/23.7
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 181 OF 269  USPATFULL on STN
AN      2001:18282  USPATFULL
TI      Methods for isolation and activation of, and control of differentiation
        from, skeletal muscle stem or progenitor cells
IN      Csete, Marie, South Pasadena, CA, United States
        Doyle, John, South Pasadena, CA, United States
        Wold, Barbara, San Marino, CA, United States
PA      California Institute of Technology, Pasadena, CA, United States (U.S.
        corporation)
PI      US 6184035          B1    20010206
AI      US 1998-195569            19981118 (9)
DT      Utility
FS      Granted
LN.CNT 1223
INCL    INCLM: 435/377.000
        INCLS: 435/375.000
NCL     NCLM:  435/377.000
        NCLS:  435/375.000
IC      [7]
        ICM: C12N005-00
EXF     435/375; 435/377
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 182 OF 269  WPIDS  COPYRIGHT 2004 THOMSON DERWENT on STN
AN    2001-582442 [65]   WPIDS
DNC   C2001-172762
TI    Preparing undifferentiated human embryonic stem cells for differentiation
      into neural progenitor cells, involves culturing inner cell mass removed
      in vitro fertilized human embryo under specific conditions.
DC    B04 D16
IN    HUR-BEN, T; PERA, M F; REUBINOFF, B E; BEN-HUR, T
PA    (HADA-N) HADASIT MEDICAL RES SERVICES & DEV; (REUB-I) REUBINOFF B E;
      (MONU) UNIV MONASH; (UYSI-N) UNIV SINGAPORE NAT; (ESCE-N) ES CELL INT PTE
      LTD; (BENH-I) BEN-HUR T; (PERA-I) PERA M F; (REUB-N) REUBINOFF
CYC   95
PI    WO 2001068815 A1 20010920 (200165)* EN  125p    C12N005-08
         RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
             NL OA PT SD SE SL SZ TR TZ UG ZW
          W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM
             DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
             LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
             SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
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      US 2002068045 A1 20020606 (200241)              A61K045-00
      US 2002164308 A1 20021107 (200275)              C12N005-08
      EP 1263932    A1 20021211 (200301)  EN          C12N005-08
          R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
             RO SE SI TR
      EP 1302536    A2 20030416 (200328)# EN          C12N005-08
          R: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC
             MK NL PT RO SE SI SK TR
      CA 2406610    A1 20030404 (200336)# EN          C12N005-08
      JP 2004500103 W  20040108 (200410)      181p    C12N005-06
ADT   WO 2001068815 A1 WO 2001-AU278 20010314; AU 2001040361 A AU 2001-40361
      20010314; US 2002068045 A1 US 2001-808382 20010314; US 2002164308 A1 CIP
      of US 2001-808382 20010314, US 2001-970543 20011004; EP 1263932 A1 EP
      2001-911277 20010314, WO 2001-AU278 20010314; EP 1302536 A2 EP 2002-256974
      20021004; CA 2406610 A1 CA 2002-2406610 20021003; JP 2004500103 W JP
      2001-567299 20010314, WO 2001-AU278 20010314
FDT   AU 2001040361 A Based on WO 2001068815; EP 1263932 A1 Based on WO
      2001068815; JP 2004500103 W Based on WO 2001068815
PRAI  AU 2001-2920     20010206; AU 2000-6211      20000314; AU 2000-1279
      20001106; EP 2002-256974    20021004; CA 2002-2406610   20021003
IC    ICM  A61K045-00; C12N005-06; C12N005-08
      ICS  A61K035-28; A61K035-30; A61K048-00; A61P009-00; A61P017-02;
           A61P025-00; A61P025-28; A61P037-00; A61P043-00; C12N005-10

L5    ANSWER 183 OF 269  WPIDS  COPYRIGHT 2004 THOMSON DERWENT on STN
AN    2001-432908 [46]   WPIDS
CR    2001-432907 [46]
DNC   C2001-131018
TI    Producing neuroectoderm cells for treatment of Parkinson's and Alzheimer's
      and for transplantation comprises culturing early primitive ectoderm-like
      cells in conditioned medium.
DC    B04 D16 D22
IN    RATHJEN, J; RATHJEN, P D
PA    (BRES-N) BRESAGEN LTD; (RATH-I) RATHJEN J; (RATH-I) RATHJEN P D
CYC   95
PI    WO 2001051611 A1 20010719 (200146)* EN    91p    C12N005-06
         RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
             NL OA PT SD SE SL SZ TR TZ UG ZW
          W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM
             DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
             LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
             SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
      AU 2001026544 A  20010724 (200166)              C12N005-06
      EP 1254211    A1 20021106 (200281)  EN          C12N005-06
          R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
             RO SE SI TR
      US 2003134413 A1 20030717 (200348)              C12N005-08
ADT   WO 2001051611 A1 WO 2001-AU30 20010112; AU 2001026544 A AU 2001-26544
      20010112; EP 1254211 A1 EP 2001-901033 20010112, WO 2001-AU30 20010112; US
      2003134413 A1 WO 2001-AU30 20010112, US 2002-181359 20021203
FDT   AU 2001026544 A Based on WO 2001051611; EP 1254211 A1 Based on WO
      2001051611
PRAI  AU 2000-7143      20000427; AU 2000-5098     20000114; AU 2000-7045
      20000420
IC    ICM  C12N005-06; C12N005-08
      ICS  C12N005-08

L5    ANSWER 184 OF 269  BIOSIS  COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN    2002:3959  BIOSIS
DN    PREV200200003959
TI    Induction of neuronal phenotype markers on a glioblastoma line using
      enriched media and growth factors stimulation.
AU    Norton, N. S. [Reprint author]; El Refaey, H.; Rodriguez-Sierra, J. F.;
      Heidrick, M. L.; Ebadi, M.; Ahmad, I.
CS    Dept. Oral Biol., Creighton Univ, Omaha, NE, USA
SO    Society for Neuroscience Abstracts, (2001) Vol. 27, No. 2, pp. 2384.
      print.
      Meeting Info.: 31st Annual Meeting of the Society for Neuroscience. San
      Diego, California, USA. November 10-15, 2001.
      ISSN: 0190-5295.
DT    Conference; (Meeting)
      Conference; Abstract; (Meeting Abstract)
LA    English
ED    Entered STN: 28 Dec 2001
      Last Updated on STN: 25 Feb 2002
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L5 ANSWER 185 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2002:2475 BIOSIS
DN PREV200200002475
TI Gene expression analysis of human neural stem cell line differentiation into neural lineages.
AU Shirley, J. S. [Reprint author]; Pattee, P. [Reprint author]; Mathews, R. [Reprint author]; Back, S. A. [Reprint author]; Kim, S. U.; Nagalla, S. R. [Reprint author]
CS Pediatrics, Oregon Health Sciences University, Portland, OR, USA
SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 2, pp. 2089. print.
Meeting Info.: 31st Annual Meeting of the Society for Neuroscience. San Diego, California, USA. November 10-15, 2001.
ISSN: 0190-5295.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 28 Dec 2001
Last Updated on STN: 25 Feb 2002

L5 ANSWER 186 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:574390 BIOSIS
DN PREV200100574390
TI Neural precursor cells in the peripheral nervous system.
AU Gray, R. A. [Reprint author]; Han, Y.; Bell, T.; Magnuson, D. S. K. [Reprint author]
CS Dept Anatomical Sci and Neurobiol, Univ Louisville, Louisville, KY, USA
SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 2, pp. 2045. print.
Meeting Info.: 31st Annual Meeting of the Society for Neuroscience. San Diego, California, USA. November 10-15, 2001.
ISSN: 0190-5295.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 12 Dec 2001
Last Updated on STN: 25 Feb 2002

L5 ANSWER 187 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:261482 BIOSIS
DN PREV200100261482
TI In vivo induction of neurogenesis in the adult mammalian forebrain.
AU Kinyamu, Richard Mutembei [Reprint author]; Opole, Rebecca Wangechi [Reprint author]; Opole, Isaac Ogwel [Reprint author]; Fallon, James Harry [Reprint author]
CS University of California, Irvine, 364 MS II, Irvine, CA, 92697-1275, USA
SO FASEB Journal, (March 8, 2001) Vol. 15, No. 5, pp. A1074. print.
Meeting Info.: Annual Meeting of the Federation of American Societies for Experimental Biology on Experimental Biology 2001. Orlando, Florida, USA. March 31-April 04, 2001.
CODEN: FAJOEC. ISSN: 0892-6638.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 30 May 2001
Last Updated on STN: 19 Feb 2002

L5 ANSWER 188 OF 269 MEDLINE on STN
AN 2001268034 MEDLINE
DN PubMed ID: 11358480
TI Generation of regionally specified neurons in expanded glial cultures derived from the mouse and human lateral ganglionic eminence.
AU Skogh C; Eriksson C; Kokaia M; Meijer X C; Wahlberg L U; Wictorin K; Campbell K
CS Division of Neurobiology, Wallenberg Neuroscience Center, Lund University, Solvegatan 17, BMC A11, S-221 84 Lund, Sweden.
SO Molecular and cellular neurosciences, (2001 May) 17 (5) 811-20.
Journal code: 9100095. ISSN: 1044-7431.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200108
ED Entered STN: 20010813
Last Updated on STN: 20010813

L5 ANSWER 189 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 36
AN 2001:272311 BIOSIS
DN PREV200100272311
TI Differential cellular accumulation of connective tissue growth factor defines a subset of reactive astrocytes, invading fibroblasts, and endothelial cells following central nervous system injury in rats and humans.
AU Schwab, Jan Markus [Reprint author]; Beschorner, Rudi; Nguyen, Thai Dung; Meyermann, Richard; Schluesener, Hermann J.
CS Institute of Brain Research, University of Tuebingen Medical School, Calwer Str. 3, D-72076, Tuebingen, Germany
jmschwab@med.uni-tuebingen.de
SO Journal of Neurotrauma, (April, 2001) Vol. 18, No. 4, pp. 377-388. print.
ISSN: 0897-7151.
DT Article
LA English
ED Entered STN: 6 Jun 2001
Last Updated on STN: 19 Feb 2002

L5 ANSWER 190 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:486840 BIOSIS
DN PREV200100486840
TI Neurospheres contain not only proliferating but also differentiated cells arranged in a specific pattern.
AU Khaing, Z. Z. [Reprint author]; Taylor, J. L. [Reprint author]; Blum, M. [Reprint author]
CS Dept of Pharmacology, UTHSCSA, San Antonio, TX, USA
SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1, pp. 344. print.
Meeting Info.: 31st Annual Meeting of the Society for Neuroscience. San Diego, California, USA. November 10-15, 2001.
ISSN: 0190-5295.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 17 Oct 2001
Last Updated on STN: 23 Feb 2002

L5 ANSWER 191 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:486830 BIOSIS
DN PREV200100486830
TI Astrocytic remodeling of the cytoskeleton and chromatin, induced under serum withdrawal by pleiotropic growth factors - ***EGF*** , bFGF, and insulin.
AU Kukekov, V. G. [Reprint author]; Ignatova, T. N. [Reprint author]; Steindler, D. A. [Reprint author]
CS Dept. of Neuroscience, McKnight Brain Institute, Univ. of Florida, Gainesville, FL, USA
SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1, pp. 342. print.
Meeting Info.: 31st Annual Meeting of the Society for Neuroscience. San Diego, California, USA. November 10-15, 2001.
ISSN: 0190-5295.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 17 Oct 2001
Last Updated on STN: 23 Feb 2002

L5 ANSWER 192 OF 269 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:756085 CAPLUS
DN 136:83267
TI Study on biological properties of neural stem cells from embryonic rat hippocampus
AU Liu, Hui; Yang, Shuyuan; Gao, Yongzhong; Zhang, Jianning; Zhang, Wenzhi
CS Department of Neurosurgery, General Hospital, Tianjin Medical University, Tianjin, 300052, Peop. Rep. China
SO Zhongguo Shenjing Jingshen Jibing Zazhi (2001), 27(4), 273-275
CODEN: ZSJZEH; ISSN: 1002-0152
PB Zhongzhan Yike Daxue Qikan Zhongxin
DT Journal
LA Chinese

L5 ANSWER 193 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:321033 BIOSIS

TI Adult corneal epithelium as a potential source of neural progenitors.
AU Ahmad, I. [Reprint author]; Zhao, X. [Reprint author]
CS Ophthalmology, Nebraska Medical Center, Omaha, NE, USA
SO IOVS, (March 15, 2001) Vol. 42, No. 4, pp. S197. print.
Meeting Info.: Annual Meeting of the Association for Research in Vision and Ophthalmology. Fort Lauderdale, Florida, USA. April 29-May 04, 2001.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 4 Jul 2001
Last Updated on STN: 19 Feb 2002

L5 ANSWER 194 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:486588 BIOSIS
DN PREV200100486588
TI Skin-derived stem cells differentiate into multiple neural and non-neural cell types.
AU Fernandes, K. J. L. [Reprint author]; McKenzie, I. A. [Reprint author]; Toma, J. G. [Reprint author]; Kaplan, D. R. [Reprint author]; Miller, F. D. [Reprint author]
CS Brain Tumor Res Center, Montreal Neurological Inst, Montreal, PQ, Canada
SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1, pp. 57. print.
Meeting Info.: 31st Annual Meeting of the Society for Neuroscience. San Diego, California, USA. November 10-15, 2001.
ISSN: 0190-5295.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 17 Oct 2001
Last Updated on STN: 23 Feb 2002

L5 ANSWER 195 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 37
AN 2001:548600 BIOSIS
DN PREV200100548600
TI ***TGF*** -alpha induces a stationary, radial-glia like phenotype in cultured astrocytes.
AU Zhou, Rixin; Wu, Xiao; Skalli, Omar [Reprint author]
CS Department of Anatomy and Cell Biology, University of Illinois at Chicago, 808 S. Wood Street, Chicago, IL, 60612, USA
oskalli@uic.edu
SO Brain Research Bulletin, (September 1, 2001) Vol. 56, No. 1, pp. 37-42. print.
CODEN: BRBUDU. ISSN: 0361-9230.
DT Article
LA English
ED Entered STN: 21 Nov 2001
Last Updated on STN: 25 Feb 2002

L5 ANSWER 196 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:361321 BIOSIS
DN PREV200100361321
TI Generation of human dopaminergic CNS precursors: Impact on restorative therapy in Parkinson's disease.
AU Storch, Alexander [Reprint author]; Meissner, Wassilios; Paul, Gesine; Boehm, Bernhard O.; Schwarz, Johannes
CS Ulm, Germany
SO Neurology, (April 24, 2001) Vol. 56, No. 8 Supplement 3, pp. A7. print.
Meeting Info.: 53rd Annual Meeting of the American Academy of Neurology. Philadelphia, PA, USA. May 05-11, 2001. American Academy of Neurology.
CODEN: NEURAI. ISSN: 0028-3878.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 2 Aug 2001
Last Updated on STN: 19 Feb 2002

L5 ANSWER 197 OF 269 USPATFULL on STN
AN 2000:146162 USPATFULL
TI Isolated and modified porcine cerebral cortical cells
IN Dinsmore, Jonathan, Brookline, MA, United States
PA Diacrin, Inc., Charlestown, MA, United States (U.S. corporation)
PI US 6140116 20001031
AI US 1995-551820 19951107 (8)
RLI Continuation-in-part of Ser. No. US 1995-424856, filed on 19 Apr 1995

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       Nov 1995, now abandoned
DT     Utility
FS     Granted
LN.CNT 5001
INCL   INCLM: 435/325.000
       INCLS: 435/374.000; 424/093.700
NCL    NCLM:  435/325.000
       NCLS:  424/093.700; 435/374.000
IC     [7]
       ICM: C12N005-00
EXF    435/325; 435/374; 435/93.7
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 198 OF 269  USPATFULL on STN
AN     2000:105715  USPATFULL
TI     Cultures of human CNS neural stem cells
IN     Carpenter, Melissa, Lincoln, RI, United States
PA     Cytotherapeutics, Inc., Lincoln, RI, United States (U.S. corporation)
PI     US 6103530                20000815
AI     US 1998-178035            19981023 (9)
RLI    Division of Ser. No. US 1997-926313, filed on 5 Sep 1997
DT     Utility
FS     Granted
LN.CNT 835
INCL   INCLM: 435/405.000
       INCLS: 435/325.000; 435/368.000; 435/377.000; 435/384.000; 435/387.000;
              435/389.000; 435/404.000; 435/406.000
NCL    NCLM:  435/405.000
       NCLS:  435/325.000; 435/368.000; 435/377.000; 435/384.000; 435/387.000;
              435/389.000; 435/404.000; 435/406.000
IC     [7]
       ICM: C12N005-00
EXF    435/325; 435/368; 435/377; 435/384; 435/387; 435/389; 435/404; 435/405;
       435/406
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 199 OF 269  USPATFULL on STN
AN     2000:70818  USPATFULL
TI     In vivo genetic modification of growth factor-responsive neural
       precursor cells
IN     Weiss, Samuel, Alberta, Canada
       Reynolds, Brent, Alberta, Canada
       Hammang, Joseph P., Barrington, RI, United States
       Baetge, E. Edward, Barrington, RI, United States
PA     NeuroSpheres Holdings Ltd., Calgary, Canada (non-U.S. corporation)
PI     US 6071889                20000606
AI     US 1995-479795            19950607 (8)
RLI    Continuation-in-part of Ser. No. US 1994-270412, filed on 5 Jul 1994,
       now abandoned And a continuation-in-part of Ser. No. US 1995-385404,
       filed on 7 Feb 1995, now abandoned And a continuation-in-part of Ser.
       No. US 1994-359945, filed on 20 Dec 1994, now abandoned And a
       continuation-in-part of Ser. No. US 1995-376062, filed on 20 Jan 1995,
       now abandoned And a continuation-in-part of Ser. No. US 1993-149508,
       filed on 9 Nov 1993, now abandoned And a continuation-in-part of Ser.
       No. US 1994-311099, filed on 23 Sep 1994, now abandoned And a
       continuation-in-part of Ser. No. US 1994-338730, filed on 14 Nov 1994,
       now abandoned which is a continuation of Ser. No. US 1991-726812, filed
       on 8 Jul 1991, now abandoned , said Ser. No. US 1994-270412, filed on 5
       Jul 1994, now abandoned which is a continuation of Ser. No. US
       1991-726812, filed on 8 Jul 1991, now abandoned , said Ser. No. US
       1995-385404, filed on 7 Feb 1995, now abandoned which is a continuation
       of Ser. No. US 1992-961813, filed on 16 Oct 1992, now abandoned which is
       a continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991,
       now abandoned , said Ser. No. US 1994-359945, filed on 20 Dec 1994, now
       abandoned which is a continuation of Ser. No. US 1994-221655, filed on 1
       Apr 1994, now abandoned which is a continuation of Ser. No. US
       1992-967622, filed on 28 Oct 1992, now abandoned which is a
       continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991,
       now abandoned , said Ser. No. US 1995-376062, filed on 20 Jan 1995, now
       abandoned which is a continuation of Ser. No. US 1993-10829, filed on 29
       Jan 1993, now abandoned which is a continuation-in-part of Ser. No. US
       1991-726812, filed on 8 Jul 1991, now abandoned , said Ser. No. US
       1993-149508, filed on 9 Nov 1993, now abandoned which is a
       continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991,
       now abandoned , said Ser. No. US 1994-311099, filed on 23 Sep 1994, now
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        filed on 8 Jul 1991, now abandoned
DT      Utility
FS      Granted
LN.CNT  4261
INCL    INCLM: 514/044.000
        INCLS: 424/093.100; 424/093.200; 424/093.210; 435/440.000; 435/455.000
NCL     NCLM:  514/044.000
        NCLS:  424/093.100; 424/093.200; 424/093.210; 435/440.000; 435/455.000
IC      [7]
        ICM: A61K035-00
        ICS: A61K048-00
EXF     514/44; 514/2; 536/23.1; 424/93.1; 424/93.2; 424/93.21; 435/455; 435/440
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 200 OF 269  USPATFULL on STN
AN      2000:40652  USPATFULL
TI      Method for production of neuroblasts
IN      Gage, Fred H., La Jolla, CA, United States
        Ray, Jasodhara, San Diego, CA, United States
PA      The Regents of the University of California, Oakland, CA, United States
        (U.S. corporation)
PI      US 6045807                 20000404
AI      US 1998-95769              19980610 (9)
RLI     Division of Ser. No. US 1993-147843, filed on 3 Nov 1993, now patented,
        Pat. No. US 5766948 which is a continuation-in-part of Ser. No. US
        1993-1543, filed on 6 Jan 1993, now abandoned
DT      Utility
FS      Granted
LN.CNT  1577
INCL    INCLM: 424/368.000
        INCLS: 435/325.000; 435/366.000; 435/395.000; 435/402.000; 435/404.000;
               424/093.700; 536/023.100
NCL     NCLM:  424/093.210
        NCLS:  424/093.700; 435/325.000; 435/366.000; 435/395.000; 435/402.000;
               435/404.000; 536/023.100
IC      [7]
        ICM: C12N005-08
EXF     424/93.7; 435/325; 435/368; 435/395; 435/402; 435/404; 536/23.1

L5    ANSWER 201 OF 269  USPATFULL on STN
AN      2000:34426  USPATFULL
TI      In vitro generation of differentiated neurons from cultures of mammalian
        multipotential CNS stem cells
IN      Johe, Karl K., Potomac, MD, United States
PA      NeuralStem Biopharmaceuticals, Ltd., College Park, MD, United States
        (U.S. corporation)
PI      US 6040180                 20000321
AI      US 1997-919580             19970507 (8)
RLI     Continuation-in-part of Ser. No. US 1996-719450, filed on 25 Sep 1996,
        now patented, Pat. No. US 5753506
PRAI    US 1996-18206P        19960523 (60)
DT      Utility
FS      Granted
LN.CNT  2187
INCL    INCLM: 435/377.000
        INCLS: 435/325.000; 435/368.000; 435/353.000
NCL     NCLM:  435/377.000
        NCLS:  435/325.000; 435/353.000; 435/368.000
IC      [7]
        ICM: C12N005-06
EXF     435/325; 435/375; 435/377; 435/347; 435/352; 435/363; 435/366; 435/368
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 202 OF 269  USPATFULL on STN
AN      2000:27802  USPATFULL
TI      Methods for differentiating neural stem cells to glial cells using
        neuregulins
IN      Anderson, David J., Altadena, CA, United States
PA      California Institute of Technology, Pasadena, CA, United States (U.S.
        corporation)
PI      US 6033906                 20000307
AI      US 1995-372329             19950506 (8)
RLI     Continuation-in-part of Ser. No. US 1994-188285, filed on 28 Jan 1994,
        now abandoned which is a continuation-in-part of Ser. No. WO
        1993-US7000, filed on 26 Jul 1993
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FS      Granted
LN.CNT 2116
INCL    INCLM: 435/325.000
        INCLS: 435/353.000; 435/368.000
NCL     NCLM:  435/325.000
        NCLS:  435/353.000; 435/368.000
IC      [7]
        ICM: C12N005-00
EXF     435/240.2; 435/325; 435/368; 435/353
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 203 OF 269  USPATFULL on STN
AN      2000:18280  USPATFULL
TI      Nucleic acid sequence of senescence asssociated gene
IN      Funk, Walter, Hayward, CA, United States
PA      Geron Corporation, Menlo Park, CA, United States (U.S. corporation)
PI      US 6025194               20000215
AI      US 1997-974180           19971119 (8)
DT      Utility
FS      Granted
LN.CNT 4667
INCL    INCLM: 435/320.100
        INCLS: 536/023.100; 536/023.500; 536/024.100; 435/320.100; 435/325.000
NCL     NCLM:  435/320.100
        NCLS:  435/325.000; 536/023.100; 536/023.500; 536/024.100
IC      [7]
        ICM: C07H021-04
        ICS: C12N015-63; C12N015-85; C12N015-11
EXF     536/23.5; 536/23.1; 536/24.1; 435/320.1; 435/325
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 204 OF 269  USPATFULL on STN
AN      2000:12660  USPATFULL
TI      Method for production of neuroblasts
IN      Gage, Fred H., La Jolla, CA, United States
        Ray, Jasodhara, San Diego, CA, United States
PA      The Regents of the University of California, Oakland, CA, United States
        (U.S. corporation)
PI      US 6020197               20000201
AI      US 1998-65883            19980424 (9)
RLI     Division of Ser. No. US 1993-147843, filed on 3 Nov 1993, now patented,
        Pat. No. US 5766948 which is a continuation-in-part of Ser. No. US
        1993-1543, filed on 6 Jan 1993, now abandoned
DT      Utility
FS      Granted
LN.CNT 1540
INCL    INCLM: 435/368.000
        INCLS: 435/325.000; 435/366.000; 435/395.000; 435/402.000; 435/404.000
NCL     NCLM:  435/368.000
        NCLS:  435/325.000; 435/366.000; 435/395.000; 435/402.000; 435/404.000
IC      [6]
        ICM: C12N005-00
EXF     435/325; 435/368; 435/395; 435/405; 435/402; 435/404; 536/23.1

L5    ANSWER 205 OF 269  USPATFULL on STN
AN      2000:4684  USPATFULL
TI      Method for production of neuroblasts
IN      Gage, Fred H., La Jolla, CA, United States
        Ray, Jasodhara, San Diego, CA, United States
PA      University of California, Oakland, CA, United States (U.S. corporation)
PI      US 6013521               20000111
AI      US 1998-65858            19980424 (9)
RLI     Division of Ser. No. US 1993-147843, filed on 3 Nov 1993, now patented,
        Pat. No. US 5766948 which is a continuation-in-part of Ser. No. US
        1993-1543, filed on 6 Jan 1993, now abandoned
DT      Utility
FS      Granted
LN.CNT 1548
INCL    INCLM: 435/368.000
        INCLS: 435/363.000; 435/366.000; 435/384.000; 435/387.000; 435/405.000;
               435/406.000; 435/325.000; 435/395.000; 435/402.000; 536/023.100
NCL     NCLM:  435/368.000
        NCLS:  435/325.000; 435/363.000; 435/366.000; 435/384.000; 435/387.000;
               435/395.000; 435/402.000; 435/405.000; 435/406.000; 536/023.100
IC      [6]
```

EXF 435/368; 435/366; 435/395; 435/325; 435/402; 435/404; 435/405; 435/384; 435/387; 435/406; 536/23.1

L5 ANSWER 206 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 38
AN 2000:473307 BIOSIS
DN PREV200000473307
TI Cytomegalovirus infection of the central nervous system stem cells from mouse embryo: A model for developmental brain disorders induced by cytomegalovirus.
AU Kosugi, Isao [Reprint author]; Shinmura, Yuichiro; Kawasaki, Hideya; Arai, Yoshifumi; Li, Ren-Yong; Baba, Satoshi; Tsutsui, Yoshihiro
CS Second Department of Pathology, Hamamatsu University School of Medicine, 3600 Handa-cho, Hamamatsu, 431-3192, Japan
SO Laboratory Investigation, (September, 2000) Vol. 80, No. 9, pp. 1373-1383. print.
CODEN: LAINAW. ISSN: 0023-6837.
DT Article
LA English
ED Entered STN: 1 Nov 2000
Last Updated on STN: 10 Jan 2002

L5 ANSWER 207 OF 269 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN DUPLICATE 39
AN 2000287379 EMBASE
TI Epidermal growth factor and fibroblast growth factor 2 cause proliferation of ependymal precursor cells in the adult rat spinal cord in vivo.
AU Kojima A.; Tator C.H.
CS Dr. C.H. Tator, Toronto Western Hospital, MP 2-435, 399 Bathurst St., Toronto, Ont. M5T 2S8, Canada
SO Journal of Neuropathology and Experimental Neurology, (2000) 59/8 (687-697).
Refs: 52
ISSN: 0022-3069 CODEN: JNENAD
CY United States
DT Journal; Article
FS 008 Neurology and Neurosurgery
021 Developmental Biology and Teratology
LA English
SL English

L5 ANSWER 208 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:307798 BIOSIS
DN PREV200100307798
TI In vitro and in vivo characterization of neural cells derived from mesenchymal stem cells.
AU Reyes, Morayma; Verfaillie, Catherine M.
SO Blood, (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 494a. print.
Meeting Info.: 42nd Annual Meeting of the American Society of Hematology. San Francisco, California, USA. December 01-05, 2000. American Society of Hematology.
CODEN: BLOOAW. ISSN: 0006-4971.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 27 Jun 2001
Last Updated on STN: 19 Feb 2002

L5 ANSWER 209 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 40
AN 2000:114156 BIOSIS
DN PREV200000114156
TI ***TGF*** -alpha differentially regulates ***GFAP*** , vimentin, and ***nestin*** gene expression in U-373 MG glioblastoma cells: Correlation with cell shape and motility.
AU Zhou, Rixin; Skalli, Omar [Reprint author]
CS Department of Anatomy and Cell Biology, University of Illinois at Chicago, 808 S. Wood Street, M/C 512, Chicago, IL, 60612, USA
SO Experimental Cell Research, (Feb. 1, 2000) Vol. 254, No. 2, pp. 269-278. print.
CODEN: ECREAL. ISSN: 0014-4827.
DT Article
LA English
ED Entered STN: 29 Mar 2000
Last Updated on STN: 3 Jan 2002

L5 ANSWER 210 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 41
AN 2000:404499 BIOSIS
DN PREV200000404499
TI Adult bone marrow stromal cells differentiate into neural cells in vitro.
AU Sanchez-Ramos, J. [Reprint author]; Song, S. [Reprint author];
Cardozo-Pelaez, F. [Reprint author]; Hazzi, C.; Stedeford, T.; Willing,
A.; Freeman, T. B.; Saporta, S.; Janssen, W.; Patel, N.; Cooper, D. R.;
Sanberg, P. R.
CS Department of Neurology, University of South Florida, Tampa, FL, USA
SO Experimental Neurology, (August, 2000) Vol. 164, No. 2, pp. 247-256.
print.
CODEN: EXNEAC. ISSN: 0014-4886.
DT Article
LA English
ED Entered STN: 20 Sep 2000
Last Updated on STN: 8 Jan 2002

L5 ANSWER 211 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 42
AN 2000:372775 BIOSIS
DN PREV200000372775
TI Long-term, ***EGF*** -stimulated cultures of attached ***GFAP***
-positive cells derived from the embryonic mouse lateral ganglionic
eminence: In vitro and transplantation studies.
AU Eriksson, Cecilia [Reprint author]; Ericson, Cecilia [Reprint author];
Gates, Monte A.; Wictorin, Klas [Reprint author]
CS Wallenberg Neuroscience Center, Department of Physiological Sciences, Lund
University, S-223 62, Lund, Sweden
SO Experimental Neurology, (July, 2000) Vol. 164, No. 1, pp. 184-199. print.
CODEN: EXNEAC. ISSN: 0014-4886.
DT Article
LA English
ED Entered STN: 30 Aug 2000
Last Updated on STN: 8 Jan 2002

L5 ANSWER 212 OF 269 CANCERLIT on STN DUPLICATE 43
AN 2000148567 CANCERLIT
DN 20148567 PubMed ID: 10683274
TI Establishment and properties of a growth factor-dependent, perpetual
neural stem cell line from the human CNS.
AU Villa A; Snyder E Y; Vescovi A; Martinez-Serrano A
CS Department of Molecular Biology, Center of Molecular Biology Severo Ochoa,
Autonomous University of Madrid-CSIC, Campus Cantoblanco, Madrid, 28049,
Spain.
SO EXPERIMENTAL NEUROLOGY, (2000 Jan) 161 (1) 67-84.
Journal code: 0370712. ISSN: 0014-4886.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS MEDLINE; Priority Journals
OS MEDLINE 2000148567
EM 200003
ED Entered STN: 20000413
Last Updated on STN: 20000413

L5 ANSWER 213 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:88078 BIOSIS
DN PREV200100088078
TI Study of optimal conditions for differentiation of neural cells from bone
marrow precursors.
AU Song, S. [Reprint author]; Cardozo-Pelaez, F.; Stedeford, T.; Dailey, M.;
Willing, A.; Saporta, S.; Janssen, W.; Zigova, T.; Sanberg, P. R.;
Sanchez-Ramos, J. R.
CS Univ South Flordia " James Haley VA Hosp, Tampa, FL, USA
SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract
No.-312.20. print.
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New
Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.
ISSN: 0190-5295.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 14 Feb 2001
Last Updated on STN: 12 Feb 2002

L5 ANSWER 214 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:88070 BIOSIS
DN PREV200100088070
TI The ***nestin*** and musashi promoters identify and select two distinct pools of neural stem cells from fetal human brain.
AU Keyoung, H. M. [Reprint author]; Benraiss, A.; Roy, N. S.; Louissant, A.; Wang, S.; Rashbaum, W. K.; Kawaguchi, A.; Okano, H.; Goldman, S. A.
CS Cornell Univ. Medical College, New York, NY, USA
SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract No.-312.12. print.
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.
ISSN: 0190-5295.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 14 Feb 2001
Last Updated on STN: 12 Feb 2002

L5 ANSWER 215 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:89033 BIOSIS
DN PREV200100089033
TI Nonhuman primate (M. fascicularis) CNS neuroglial precursors: in vivo characterization and in vitro myelinating potential.
AU Avellana-Adalid, V. [Reprint author]; Vitry, S.; Lachapelle, F.; Baron-Van Evercooren, A.
CS CHU Pitie-Salpetriere, Paris, France
SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract No.-516.3. print.
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.
ISSN: 0190-5295.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 14 Feb 2001
Last Updated on STN: 12 Feb 2002

L5 ANSWER 216 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:97226 BIOSIS
DN PREV200100097226
TI Use of choleratoxin B as an improved marker for transplanted spinal progenitor cells in the rat spinal cord.
AU Sagen, J. [Reprint author]; Lee, J. W.
CS Univ. Miami Sch. of Med., Miami, FL, USA
SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract No.-416.5. print.
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.
ISSN: 0190-5295.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 21 Feb 2001
Last Updated on STN: 15 Feb 2002

L5 ANSWER 217 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:88071 BIOSIS
DN PREV200100088071
TI Generation of neurones from multi-passage glial cultures.
AU Fagerstrom, C. [Reprint author]; Eriksson, C.; Wictorin, K.; Campbell, K.
CS Lund University, Lund, Sweden
SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract No.-312.13. print.
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience. New Orleans, LA, USA. November 04-09, 2000. Society for Neuroscience.
ISSN: 0190-5295.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 14 Feb 2001
Last Updated on STN: 12 Feb 2002

L5 ANSWER 218 OF 269 DISSABS COPYRIGHT (C) 2004 ProQuest Information and Learning Company; All Rights Reserved on STN

TI Effects of ***TGF*** -alpha on the malignant behavior and gene expression profile of U-373 MG glioblastoma cells
AU Zhou, Rixin [Ph.D.]; Skalli, Omar [adviser]
CS University of Illinois at Chicago (0799)
SO Dissertation Abstracts International, (1999) Vol. 60, No. 12B, p. 5879. Order No.: AAI9954839. 104 pages.
DT Dissertation
FS DAI
LA English

L5 ANSWER 219 OF 269 USPATFULL on STN
AN 1999:163509 USPATFULL
TI Methods for differentiating neural stem cells to neurons or smooth muscle cells using TGT-.beta. super family growth factors
IN Anderson, David J., Altadena, CA, United States
Shah, Nirao M., New York, NY, United States
PA California Institute of Technology, Pasadena, CA, United States (U.S. corporation)
PI US 6001654 19991214
AI US 1997-846028 19970425 (8)
RLI Continuation-in-part of Ser. No. US 1994-188286, filed on 28 Jan 1994, now patented, Pat. No. US 5654183 which is a continuation-in-part of Ser. No. WO 1993-US7000, filed on 26 Jul 1993 which is a continuation-in-part of Ser. No. US 1992-969088, filed on 29 Oct 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-920617, filed on 27 Jul 1992, now abandoned
PRAI US 1997-44797P 19970424 (60)
DT Utility
FS Granted
LN.CNT 2392
INCL INCLM: 435/377.000
INCLS: 435/325.000; 435/352.000; 435/353.000; 435/368.000; 435/375.000
NCL NCLM: 435/377.000
NCLS: 435/325.000; 435/352.000; 435/353.000; 435/368.000; 435/375.000
IC [6]
ICM: C12N005-16
EXF 435/325; 435/375; 435/352; 435/353; 435/377; 435/368
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 220 OF 269 USPATFULL on STN
AN 1999:141572 USPATFULL
TI In vitro induction of dopaminergic cells
IN Weiss, Samuel, Alberta, Canada
Reynolds, Brent, Alberta, Canada
PA NeuroSpheres Holdings Ltd., Calgary, Canada (non-U.S. corporation)
PI US 5981165 19991109
AI US 1995-482079 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1994-339090, filed on 14 Nov 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-270412, filed on 5 Jul 1994, now abandoned which is a continuation of Ser. No. US 1991-726812, filed on 8 Jul 1991, now abandoned
DT Utility
FS Granted
LN.CNT 1154
INCL INCLM: 435/004.000
INCLS: 424/093.700; 435/325.000; 514/002.000; 530/399.000
NCL NCLM: 435/004.000
NCLS: 424/093.700; 435/325.000; 514/002.000; 530/399.000
IC [6]
ICM: C12Q001-00
ICS: C12N005-00; A61K038-30
EXF 424/92R; 424/93.7; 435/1; 435/240.2; 435/4; 435/325; 514/2; 530/399
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 221 OF 269 USPATFULL on STN
AN 1999:141292 USPATFULL
TI Growth factor-induced proliferation of neural precursor cells in vivo
IN Weiss, Samuel, Alberta, Canada
Reynolds, Brent, Alberta, Canada
PA NeuroSpheres Holdings Ltd., Calgary, Canada (non-U.S. corporation)
PI US 5980885 19991109
AI US 1995-486307 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1994-270412, filed on 5 Jul 1994, now abandoned Ser. No. Ser. No. US 1995-385404, filed on 7 Feb 1995, now abandoned Ser. No. Ser. No. US 1994-359945, filed on 20 Dec 1994, now

abandoned Ser. No. Ser. No. US 1993-149508, filed on 9 Nov 1993, now abandoned Ser. No. Ser. No. US 1994-311099, filed on 23 Sep 1994, now abandoned And Ser. No. US 1994-338730, filed on 14 Nov 1994, now abandoned which is a continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991, now abandoned , said Ser. No. US 270412 which is a continuation of Ser. No. US 726812 , said Ser. No. US 385404 which is a continuation of Ser. No. US 1992-961813, filed on 16 Oct 1992, now abandoned which is a continuation-in-part of Ser. No. US 726812 , said Ser. No. US 359945 which is a continuation of Ser. No. US 1994-221655, filed on 1 Apr 1994, now abandoned which is a continuation of Ser. No. US 1992-967622, filed on 28 Oct 1992, now abandoned which is a continuation-in-part of Ser. No. US 726812 , said Ser. No. US 376062 which is a continuation of Ser. No. US 1993-10829, filed on 29 Jan 1993, now abandoned which is a continuation-in-part of Ser. No. US 726812 , said Ser. No. US 149508 which is a continuation-in-part of Ser. No. US 726812 , said Ser. No. US 311099 which is a continuation-in-part of Ser. No. US 726812

DT Utility
FS Granted
LN.CNT 4215
INCL INCLM: 424/093.210
INCLS: 424/093.100; 424/093.200; 435/325.000; 435/360.000; 435/366.000; 435/368.000; 435/377.000; 435/383.000; 435/384.000; 435/440.000; 435/455.000; 435/456.000; 435/457.000; 514/002.000; 514/044.000
NCL NCLM: 424/093.210
NCLS: 424/093.100; 424/093.200; 435/325.000; 435/360.000; 435/366.000; 435/368.000; 435/377.000; 435/383.000; 435/384.000; 435/440.000; 435/455.000; 435/456.000; 435/457.000; 514/002.000; 514/044.000
IC [6]
ICM: A01N063-00
ICS: A01N043-04; C12N005-00; C12N005-08
EXF 435/240.2; 435/325; 435/360; 435/366; 435/368; 435/377; 435/383; 435/455; 435/456; 435/457; 514/2; 514/44; 424/93.1; 424/93.2; 424/93.21
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 222 OF 269 USPATFULL on STN
AN 1999:128445 USPATFULL
TI Human CNS neural stem cells
IN Carpenter, Melissa, Lincoln, RI, United States
PA Cytotherapeutics, Inc., Providence, RI, United States (U.S. corporation)
PI US 5968829 19991019
AI US 1997-926313 19970905 (8)
DT Utility
FS Granted
LN.CNT 942
INCL INCLM: 435/467.000
INCLS: 435/368.000; 435/377.000; 424/093.700
NCL NCLM: 435/467.000
NCLS: 424/093.700; 435/368.000; 435/377.000
IC [6]
ICM: C12N005-08
ICS: C12N005-10
EXF 435/368; 435/377; 435/467; 424/93.7
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 223 OF 269 USPATFULL on STN
AN 1999:117338 USPATFULL
TI Engraftable human neural stem cells
IN Snyder, Evan Y., Jamaica Plain, MA, United States
Wolfe, John H., Philadelphia, PA, United States
Kim, Seung U., Vancouver, Canada
PA The Children's Medical Center Corp., Boston, MA, United States (U.S. corporation)
PI US 5958767 19990928
AI US 1998-133873 19980814 (9)
DT Utility
FS Granted
LN.CNT 1267
INCL INCLM: 435/368.000
INCLS: 435/455.000
NCL NCLM: 435/368.000
NCLS: 435/455.000
IC [6]
ICM: C12N005-08
EXF 935/325; 935/366; 935/368; 935/455

L5 ANSWER 224 OF 269 USPATFULL on STN
AN 1999:85298 USPATFULL
TI Mammalian multipotent neural stem cells
IN Anderson, David J., Altadena, CA, United States
Stemple, Derek L., Newton, MA, United States
PA California Institute of Technology, Pasadena, CA, United States (U.S. corporation)
PI US 5928947 19990727
AI US 1995-483142 19950607 (8)
RLI Division of Ser. No. US 1994-188286, filed on 28 Jan 1994, now patented, Pat. No. US 5654183 And a continuation-in-part of Ser. No. WO 1993-US7000, filed on 26 Jul 1993 which is a continuation-in-part of Ser. No. US 1992-969088, filed on 29 Oct 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-920617, filed on 27 Jul 1992, now abandoned
DT Utility
FS Granted
LN.CNT 2114
INCL INCLM: 435/455.000
INCLS: 435/069.100; 435/325.000; 435/440.000; 424/093.700
NCL NCLM: 435/455.000
NCLS: 424/093.700; 435/069.100; 435/325.000; 435/440.000
IC [6]
ICM: C12N015-00
ICS: C12N015-85; A16K035-30
EXF 435/69.1; 435/320.1; 435/240.2; 435/325; 400/2; 424/93.7

L5 ANSWER 225 OF 269 USPATFULL on STN
AN 1999:16108 USPATFULL
TI Transgenic mice expressing TSSV40 large T antigen
IN Jat, Parmjit Singh, London, England
Kioussis, Dimitris, London, England
Noble, Mark David, Berkhamstead, England
PA Ludwig Institute For Cancer Research, New York, NY, United States (U.S. corporation)
PI US 5866759 19990202
AI US 1997-887095 19970702 (8)
RLI Division of Ser. No. US 1993-17320, filed on 11 Feb 1993, now patented, Pat. No. US 5688692 which is a continuation of Ser. No. US 1991-657809, filed on 20 Feb 1991, now abandoned
DT Utility
FS Granted
LN.CNT 1955
INCL INCLM: 800/002.000
INCLS: 435/354.000; 935/059.000
NCL NCLM: 800/018.000
NCLS: 435/354.000
IC [6]
ICM: C12N005-00
ICS: C12N015-00
EXF 800/2; 800/DIG.1; 435/354
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 226 OF 269 USPATFULL on STN
AN 1999:4408 USPATFULL
TI Control of cell growth in a bioartificial organ with extracellular matrix coated microcarriers
IN Schinstine, Malcolm, Ben Salem, PA, United States
Shoichet, Molly S., Toronto, Canada
Gentile, Frank T., Warwick, RI, United States
Hammang, Joseph P., Barrington, RI, United States
Holland, Laura M., Horsham, PA, United States
Cain, Brian M., Everett, MA, United States
Doherty, Edward J., Mansfield, MA, United States
Winn, Shelley R., Smithfield, RI, United States
Aebischer, Patrick, Lutry, Switzerland
PA CytoTherapeutics, Inc., United States (U.S. corporation)
PI US 5858747 19990112
AI US 1995-447810 19950523 (8)
RLI Division of Ser. No. US 1995-432698, filed on 9 May 1995 which is a continuation-in-part of Ser. No. US 1994-279773, filed on 20 Jul 1994
DT Utility
FS Granted
LN.CNT 2333

INCLS: 424/093.210; 424/093.700; 424/422.000; 435/176.000; 435/177.000; 435/178.000; 435/377.000; 435/382.000; 435/395.000; 435/403.000; 435/289.100
NCL NCLM: 435/182.000
NCLS: 424/093.210; 424/093.700; 424/422.000; 435/176.000; 435/177.000; 435/178.000; 435/289.100; 435/377.000; 435/382.000; 435/395.000; 435/403.000
IC [6]
ICM: C12N011-04
ICS: C12N005-06; C12N005-08; C12N011-02
EXF 435/178; 435/240.2; 435/240.22; 435/240.23; 435/240.24; 435/240.241; 435/240.242; 435/240.243; 435/182; 435/176; 435/177; 435/377; 435/382; 435/395; 435/403; 435/289.1; 424/93.7; 424/93.21; 424/422
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 227 OF 269 Elsevier BIOBASE COPYRIGHT 2004 Elsevier Science B.V. on STN
AN 2000097733 ESBIOBASE
TI Astroglial differentiation of cortical precursor cells triggered by activation of the cAMP-dependent signaling pathway
AU McManus M.F.; Chen L.-C.; Vallejo I.; Vallejo M.
CS Dr. M. Vallejo, Inst. de Investigaciones Biomedicas, Calle Arturo Duperier 4, 28029 Madrid, Spain.
SO Journal of Neuroscience, (15 OCT 1999), 19/20 (9004-9015), 73 reference(s)
CODEN: JNRSDS ISSN: 0270-6474
DT Journal; Article
CY United States
LA English
SL English

L5 ANSWER 228 OF 269 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
AN 2000150395 EMBASE
TI Fibroblast growth factor-2 activates a latent neurogenic program in neural stem cells from diverse regions of the adult CNS.
AU Palmer T.D.; Markakis E.A.; Willhoite A.R.; Safar F.; Gage F.H.
CS T.D. Palmer, Laboratory of Genetics, Salk Institute, 10010 North Torrey Pines Road, San Diego, CA 92037, United States
SO Journal of Neuroscience, (1 Oct 1999) 19/19 (8487-8497).
Refs: 56
ISSN: 0270-6474 CODEN: JNRSDS
CY United States
DT Journal; Article
FS 008 Neurology and Neurosurgery
021 Developmental Biology and Teratology
029 Clinical Biochemistry
LA English
SL English

L5 ANSWER 229 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2000:148283 BIOSIS
DN PREV200000148283
TI ***TGF*** -alpha differentially regulates ***GFAP*** , vimentin and ***nestin*** gene expression in U-373 MG glioblastoma cells. Correlation with cell shape and motility.
AU Zhou, R. [Reprint author]; Skalli, O. [Reprint author]
CS Department of Anatomy and Cell Biology, University of Illinois at Chicago, 808 S. Wood Street, Chicago, IL, 60612, USA
SO Society for Neuroscience Abstracts, (1999) Vol. 25, No. 1-2, pp. 2086. print.
Meeting Info.: 29th Annual Meeting of the Society for Neuroscience. Miami Beach, Florida, USA. October 23-28, 1999. Society for Neuroscience.
ISSN: 0190-5295.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 19 Apr 2000
Last Updated on STN: 4 Jan 2002

L5 ANSWER 230 OF 269 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:22622 CAPLUS
DN 132:192712
TI Synaptophysin. A novel marker for human and rat hepatic stellate cells
AU Cassiman, David; Van Pelt, Jos; De Vos, Rita; Van Lommel, Fons; Desmet

CS Laboratory of Liver and Pancreatic Diseases, Leuven University, Louvain, B-3000, Belg.
SO American Journal of Pathology (1999), 155(6), 1831-1839
CODEN: AJPAA4; ISSN: 0002-9440
PB American Society for Investigative Pathology
DT Journal
LA English
RE.CNT 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 231 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 44
AN 1999:450423 BIOSIS
DN PREV199900450423
TI Lineage restriction of neuroepithelial precursor cells from fetal human spinal cord.
AU Quinn, Sean M.; Walters, Winston M.; Vescovi, Angelo L.; Whittemore, Scott R. [Reprint author]
CS Department of Neurological Surgery, University of Louisville School of Medicine, 210 E. Gray St., Suite 1102, Louisville, KY, 40202, USA
SO Journal of Neuroscience Research, (Sept. 1, 1999) Vol. 57, No. 5, pp. 590-602. print.
CODEN: JNREDK. ISSN: 0360-4012.
DT Article
LA English
ED Entered STN: 26 Oct 1999
Last Updated on STN: 3 May 2000

L5 ANSWER 232 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2000:15884 BIOSIS
DN PREV200000015884
TI Sonic Hedgehog and BMP2 exert opposing actions on proliferation and differentiation of embryonic neural progenitor cells.
AU Zhu, Gaofa [Reprint author]; Mehler, Mark F.; Zhao, Jie; Yung, Shau Yu; Kessler, John A.
CS Department of Neurology and Department of Neuroscience, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY, 10461, USA
SO Developmental Biology, (Nov. 1, 1999) Vol. 215, No. 1, pp. 118-129. print.
CODEN: DEBIAO. ISSN: 0012-1606.
DT Article
LA English
ED Entered STN: 29 Dec 1999
Last Updated on STN: 31 Dec 2001

L5 ANSWER 233 OF 269 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
AN 1999260175 EMBASE
TI Microstructure of nonpassaged spheroids formed by ***EGF*** -responsive neural precursor cells in vitro.
AU Mokry J.; Subrtova D.; Nemecek S.
CS Dr. J. Mokry, Department Histology and Embryology, Charles University, Medical Faculty, Simkova 870, 500 01 Hradec Kralove, Czech Republic. mokry@lfhk.cuni.cz
SO Electronic Journal of Pathology and Histology, (1999) 5/2 (43-56).
Refs: 38
ISSN: 0948-0382 CODEN: EPHIFB
CY Germany
DT Journal; Article
FS 008 Neurology and Neurosurgery
029 Clinical Biochemistry
LA English
SL English

L5 ANSWER 234 OF 269 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1998:578539 PROMT
TITLE: CytoTherapeutics Researchers Demonstrate Potential for Human Neural Stem Cells to Repair or Replace CNS Tissue.
SOURCE: Business Wire, (9 Nov 1998) pp. 1351.
LANGUAGE: English
WORD COUNT: 1701
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L5 ANSWER 235 OF 269 USPATFULL on STN
AN 1998:161993 USPATFULL

bioartificial organs
IN   Schinstine, Malcolm, Ben Salem, PA, United States
        Shoichet, Molly S., Toronto, Canada
        Gentile, Frank T., Warwick, RI, United States
        Hammang, Joseph P., Barrington, RI, United States
        Holland, Laura M., Horsham, PA, United States
        Cain, Brian M., Everett, MA, United States
        Doherty, Edward J., Mansfield, MA, United States
        Winn, Shelley R., Smithfield, RI, United States
        Aebischer, Patrick, Lutry, Canada
PA   CytoTherapeutics, Inc., Lincoln, RI, United States (U.S. corporation)
PI   US 5853717   19981229
AI   US 1995-447356   19950523 (8)
RLI   Division of Ser. No. US 1995-432698, filed on 9 May 1995 which is a continuation-in-part of Ser. No. US 1994-279773, filed on 20 Jul 1994
DT   Utility
FS   Granted
LN.CNT 2340
INCL   INCLM: 424/093.210
        INCLS: 435/326.000; 435/372.200; 435/372.300; 435/382.000
NCL   NCLM: 424/093.210
        NCLS: 435/326.000; 435/372.200; 435/372.300; 435/382.000
IC   [6]
        ICM: A01N063-00
EXF   435/240; 435/243; 435/402; 435/395; 435/382; 435/372.3; 435/372.2; 435/382.2; 435/326; 424/93.21; 427/2.24
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 236 OF 269 USPATFULL on STN
AN   1998:159764 USPATFULL
TI   In vitro growth and proliferation of multipotent neural stem cells and their progeny
IN   Weiss, Samuel, Alberta, Canada
        Reynolds, Brent, Alberta, Canada
        Hammang, Joseph P., Barrington, RI, United States
        Baetge, E. Edward, Barrington, RI, United States
PA   Neurospheres, Ltd., Canada (non-U.S. corporation)
PI   US 5851832   19981222
AI   US 1995-486648   19950607 (8)
RLI   Continuation-in-part of Ser. No. US 1994-270412, filed on 5 Jul 1994, now abandoned which is a continuation of Ser. No. US 1991-726812, filed on 8 Jul 1991, now abandoned And a continuation-in-part of Ser. No. US 1995-385404, filed on 7 Feb 1995, now abandoned which is a continuation of Ser. No. US 1992-961813, filed on 16 Oct 1992, now abandoned which is a continuation-in-part of Ser. No. US 726812 And Ser. No. US 1994-359945, filed on 20 Dec 1994, now abandoned which is a continuation of Ser. No. US 1994-221655, filed on 1 Apr 1994, now abandoned which is a continuation of Ser. No. US 1992-967622, filed on 28 Oct 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991, now abandoned And Ser. No. US 1995-376062, filed on 20 Jan 1995, now abandoned which is a continuation of Ser. No. US 1993-10829, filed on 29 Jan 1993, now abandoned which is a continuation-in-part of Ser. No. US 726812 And Ser. No. US 1993-149508, filed on 9 Nov 1993, now abandoned which is a continuation-in-part of Ser. No. US 726812 And Ser. No. US 1994-311099, filed on 23 Sep 1994, now abandoned which is a continuation-in-part of Ser. No. US 726812 And Ser. No. US 1994-338730, filed on 14 Nov 1994, now abandoned which is a continuation-in-part of Ser. No. US 726812
DT   Utility
FS   Granted
LN.CNT 4487
INCL   INCLM: 435/368.000
        INCLS: 435/325.000; 435/366.000; 435/383.000; 435/384.000
NCL   NCLM: 435/368.000
        NCLS: 435/325.000; 435/366.000; 435/377.000; 435/383.000; 435/384.000
IC   [6]
        ICM: C12N005-06
        ICS: C12N005-08; C12N005-02
EXF   435/240.2; 435/325; 435/366; 435/368; 435/377; 435/383; 435/384
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 237 OF 269 USPATFULL on STN
AN   1998:157163 USPATFULL
TI   Mammalian multipotent neural stem cells
IN   Anderson, David J., Altadena, CA, United States

PA California Institute of Technology, Pasadena, CA, United States (U.S. corporation)
PI US 5849553 19981215
AI US 1995-485612 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1994-188286, filed on 28 Jan 1994, now patented, Pat. No. US 5654183 which is a continuation-in-part of Ser. No. US 1992-969088, filed on 29 Oct 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-920617, filed on 27 Jul 1992, now abandoned
DT Utility
FS Granted
LN.CNT 3072
INCL INCLM: 435/172.300
INCLS: 435/069.100; 435/320.100; 435/325.000; 435/353.000
NCL NCLM: 435/467.000
NCLS: 435/069.100; 435/320.100; 435/325.000; 435/353.000; 435/368.000; 435/455.000; 435/462.000
IC [6]
ICM: C12N015-85
ICS: C12N015-09
EXF 435/69.1; 435/172.3; 435/320.1; 435/325; 435/353
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 238 OF 269 USPATFULL on STN
AN 1998:150454 USPATFULL
TI Controlling proliferation of cells before and after encapsulation in a bioartificial organ by gene transformation
IN Schinstine, Malcolm, Ben Salem, PA, United States
Shoichet, Molly S., Toronto, Canada
Gentile, Frank T., Warwick, RI, United States
Hammang, Joseph P., Barrington, RI, United States
Holland, Laura M., Horsham, PA, United States
Cain, Brian M., Everett, MA, United States
Doherty, Edward J., Mansfield, MA, United States
Winn, Shelley R., Smithfield, RI, United States
Aebischer, Patrick, Lutry, Switzerland
PA CytoTherapeutics, Inc., United States (U.S. corporation)
PI US 5843431 19981201
AI US 1995-432698 19950509 (8)
RLI Continuation-in-part of Ser. No. US 1994-279773, filed on 20 Jul 1994
DT Utility
FS Granted
LN.CNT 2352
INCL INCLM: 424/093.210
INCLS: 435/172.300; 435/174.000; 435/178.000; 435/377.000; 435/382.000; 435/395.000; 424/093.700; 424/422.000
NCL NCLM: 424/093.210
NCLS: 424/093.700; 424/422.000; 435/174.000; 435/178.000; 435/377.000; 435/382.000; 435/395.000; 435/467.000
IC [6]
ICM: A61K048-00
ICS: C12N011-00; C12N005-00; C12N011-10
EXF 435/174; 435/178; 435/172.3; 435/240.7; 435/240.22; 435/240.23; 435/240.24; 435/240.241; 435/240.242; 435/240.243; 435/377; 435/382; 435/395; 424/93.21; 424/93.7; 424/422
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 239 OF 269 USPATFULL on STN
AN 1998:147298 USPATFULL
TI Methods and compositions of growth control for cells encapsulated within bioartificial organs
IN Schinstine, Malcolm, Ben Salem, PA, United States
Shoichet, Molly S., Toronto, Canada
Gentile, Frank T., Warwick, RI, United States
Hammang, Joseph P., Barrington, RI, United States
Holland, Laura M., Horsham, PA, United States
Cain, Brian M., Everett, MA, United States
Doherty, Edward J., Mansfield, MA, United States
Winn, Shelley R., Smithfield, RI, United States
Aebischer, Patrick, Lutry, Switzerland
PA CytoTherapeutics, Inc., United States (U.S. corporation)
PI US 5840576 19981124
AI US 1995-445193 19950523 (8)
RLI Division of Ser. No. US 1995-432698, filed on 9 May 1995 which is a continuation-in-part of Ser. No. US 1994-279773, filed on 20 Jul 1994

FS Granted
LN.CNT 2293
INCL INCLM: 435/325.000
INCLS: 435/375.000; 435/377.000; 435/400.000
NCL NCLM: 435/325.000
NCLS: 435/375.000; 435/377.000; 435/400.000
IC [6]
ICM: C12N005-00
EXF 435/240.2; 435/240.22; 435/240.23; 435/240.242; 435/240.243; 435/325; 435/375; 435/377; 435/400
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 240 OF 269 USPATFULL on STN
AN 1998:138431 USPATFULL
TI Methods and compositions of growth control for cells encapsulated within bioartificial organs
IN Schinstine, Malcolm, Ben Salem, PA, United States
Shoichet, Molly S., Toronto, Canada
Gentile, Frank T., Warwick, RI, United States
Hammang, Joseph P., Barrington, RI, United States
Holland, Laura M., Horsham, PA, United States
Cain, Brian M., Everett, MA, United States
Doherty, Edward J., Mansfield, MA, United States
Winn, Shelley R., Smithfield, RI, United States
Aebischer, Patrick, Lutry, Switzerland
PA CytoTherapeutics, Inc., Lincoln, RI, United States (U.S. corporation)
PI US 5833979 19981110
AI US 1995-447771 19950523 (8)
RLI Division of Ser. No. US 1995-432698, filed on 9 May 1995 which is a continuation-in-part of Ser. No. US 1994-279773, filed on 20 Jul 1994
DT Utility
FS Granted
LN.CNT 2266
INCL INCLM: 424/093.210
INCLS: 424/553.000; 424/556.000; 435/174.000; 435/352.000
NCL NCLM: 424/093.210
NCLS: 424/553.000; 424/556.000; 435/174.000; 435/352.000
IC [6]
ICM: A01N063-00
EXF 435/240; 435/243; 435/174; 435/352; 424/93.21; 424/553; 424/556
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 241 OF 269 USPATFULL on STN
AN 1998:98815 USPATFULL
TI Method for controlling proliferation and differentiation of cells encapsulated within bioartificial organs
IN Schinstine, Malcolm, Ben Salem, PA, United States
Shoichet, Molly S., Toronto, Canada
Gentile, Frank T., Warwick, RI, United States
Hammang, Joseph P., Barrington, RI, United States
Holland, Laura M., Horsham, PA, United States
Cain, Brian M., Everett, MA, United States
Doherty, Edward J., Mansfield, MA, United States
Winn, Shelley R., Smithfield, RI, United States
Aebischer, Patrick, Lutry, Switzerland
PA Cytotherapeutics, Inc., Lincoln, RI, United States (U.S. corporation)
PI US 5795790 19980818
AI US 1995-448201 19950523 (8)
RLI Division of Ser. No. US 1995-432698, filed on 9 May 1995 which is a continuation-in-part of Ser. No. US 1994-279773, filed on 20 Jul 1994
DT Utility
FS Granted
LN.CNT 2311
INCL INCLM: 435/382.000
INCLS: 424/093.700; 435/177.000; 435/178.000; 435/180.000; 435/182.000
NCL NCLM: 435/382.000
NCLS: 424/093.700; 435/177.000; 435/178.000; 435/180.000; 435/182.000
IC [6]
ICM: C12N005-00
ICS: C12N011-02; C12N011-04; A61K035-12
EXF 435/177; 435/178; 435/240.7; 435/240.22; 435/240.23; 435/240.24; 435/240.241; 435/240.242; 435/240.243; 435/180; 435/182; 424/93.7
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 242 OF 269 USPATFULL on STN

TI   Method for controlling the distribution of cells within a bioartificial
        organ using polycthylene oxide-poly (dimethylsiloxane) copolymer
IN   Schinstine, Malcolm, Bensalem, PA, United States
        Shoichet, Molly S., Toronto, Canada
        Gentile, Frank T., Warwick, RI, United States
        Hammang, Joseph P., Barrington, RI, United States
        Holland, Laura M., Horsham, PA, United States
        Cain, Brian M., Everett, MA, United States
        Doherty, Edward J., Mansfield, MA, United States
        Winn, Shelley R., Smithfield, RI, United States
        Aebischer, Patrick, Lutry, Switzerland
PA   Cytotherapeutics, Inc., United States (U.S. corporation)
PI   US 5776747   19980707
AI   US 1995-447778   19950523 (8)
RLI   Division of Ser. No. US 1995-432692, filed on 9 May 1995
        Continuation-in-part of Ser. No. US 1994-279973, filed on 20 Jul 1994
DT   Utility
FS   Granted
LN.CNT 2264
INCL   INCLM: 435/177.000
        INCLS: 435/180.000; 435/181.000; 435/182.000
NCL   NCLM: 435/177.000
        NCLS: 435/180.000; 435/181.000; 435/182.000
IC   [6]
        ICM: C12N011-02
        ICS: C12N011-08; C12N011-06; C12N011-04
EXF   435/182; 435/177; 435/180; 435/181
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 243 OF 269 USPATFULL on STN
AN   1998:72446 USPATFULL
TI   Regulatable retrovirus system for genetic modification of cells
IN   Gage, Fred H., La Jolla, CA, United States
        Ray, Jasodhara, San Diego, CA, United States
        Hoshimaru, Minoru, Shiga-ken, Japan
PA   The Regents of the University of California, Oakland, CA, United States
        (U.S. corporation)
PI   US 5770414   19980623
AI   US 1996-602203   19960220 (8)
DT   Utility
FS   Granted
LN.CNT 1051
INCL   INCLM: 435/172.300
        INCLS: 435/320.100; 435/353.000; 435/357.000
NCL   NCLM: 435/456.000
        NCLS: 435/320.100; 435/353.000; 435/357.000
IC   [6]
        ICM: C12N015-00
EXF   435/320.1; 435/69.1; 435/69.2; 435/172.1; 435/172.3; 435/353; 435/240.2;
        435/357; 935/22; 935/29; 935/32; 935/36; 935/41; 935/43; 935/57; 935/70
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 244 OF 269 USPATFULL on STN
AN   1998:68873 USPATFULL
TI   Method for production of neuroblasts
IN   Gage, Fred H., La Jolla, CA, United States
        Ray, Jasodhara, San Diego, CA, United States
PA   The Regents of the University of California, Oakland, CA, United States
        (U.S. corporation)
PI   US 5766948   19980616
AI   US 1993-147843   19931103 (8)
RLI   Continuation-in-part of Ser. No. US 1993-1543, filed on 6 Jan 1993, now
        abandoned
DT   Utility
FS   Granted
LN.CNT 1536
INCL   INCLM: 435/368.000
        INCLS: 435/325.000; 435/366.000; 435/395.000; 435/402.000; 435/404.000
NCL   NCLM: 435/368.000
        NCLS: 435/325.000; 435/366.000; 435/395.000; 435/402.000; 435/404.000
IC   [6]
        ICM: C12N005-00
EXF   435/240.2; 435/240.21; 435/240.23; 435/240.243; 435/240.3; 435/240.31;
        435/325; 435/366; 435/368; 435/404; 435/395; 435/402

AN 1998:54752 USPATFULL
TI Isolation propagation and directed differentiation of stem cells from embryonic and adult central nervous system of mammals
IN Johe, Karl K., Potomac, MD, United States
PA CNS Stem Cell Technology, Inc., Bethesda, MD, United States (U.S. corporation)
PI US 5753506 19980519
AI US 1996-719450 19960925 (8)
PRAI US 1996-18206P 19960523 (60)
DT Utility
FS Granted
LN.CNT 1705
INCL INCLM: 435/377.000
INCLS: 435/325.000; 435/366.000; 435/368.000
NCL NCLM: 435/377.000
NCLS: 435/325.000; 435/366.000; 435/368.000
IC [6]
ICM: C12N005-08
EXF 435/240.2; 435/240.21; 435/240.23; 435/240.1; 435/325; 435/347; 435/352; 435/363; 435/366; 435/368; 435/375; 435/377
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 246 OF 269 USPATFULL on STN
AN 1998:51459 USPATFULL
TI In vitro growth and proliferation of genetically modified multipotent neural stem cells and their progeny
IN Weiss, Samuel, Alberta, Canada
Reynolds, Brent, Alberta, Canada
Hammang, Joseph P., Barrington, RI, United States
Baetge, E. Edward, Barrington, RI, United States
PA NeuroSpheres Holdings Ltd., Calgary, Canada (non-U.S. corporation)
PI US 5750376 19980512
AI US 1995-483122 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1994-270412, filed on 5 Jul 1994, now abandoned Ser. No. Ser. No. US 1995-385404, filed on 7 Feb 1995, now abandoned Ser. No. Ser. No. US 1994-359945, filed on 20 Dec 1994, now abandoned Ser. No. Ser. No. US 1995-376062, filed on 20 Jan 1995, now abandoned Ser. No. Ser. No. US 1993-149508, filed on 9 Nov 1993, now abandoned Ser. No. Ser. No. US 1994-311099, filed on 23 Sep 1994, now abandoned And Ser. No. US 1994-338730, filed on 14 Nov 1994, now abandoned which is a continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991, now abandoned , said Ser. No. US 1995-385404, filed on 7 Feb 1995, now abandoned which is a continuation of Ser. No. US 1992-961813, filed on 16 Oct 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991, now abandoned , said Ser. No. US 1994-359345, filed on 20 Dec 1994, now abandoned which is a continuation of Ser. No. US 1994-221655, filed on 1 Apr 1994, now abandoned which is a continuation of Ser. No. US 1992-967622, filed on 28 Oct 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991, now abandoned , said Ser. No. US 1995-376062, filed on 20 Jan 1995, now abandoned which is a continuation of Ser. No. US 1993-10829, filed on 29 Jan 1993, now abandoned which is a continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991, now abandoned , said Ser. No. US 1994-270412, filed on 5 Jul 1994, now abandoned Ser. No. Ser. No. US 1993-149508, filed on 9 Nov 1993, now abandoned And Ser. No. US 1994-311099, filed on 23 Sep 1994, now abandoned , each Ser. No. US - which is a continuation-in-part of Ser. No. US 1991-726812, filed on 8 Jul 1991, now abandoned
DT Utility
FS Granted
LN.CNT 4339
INCL INCLM: 435/069.520
INCLS: 435/069.100; 435/172.300; 435/325.000; 435/368.000; 435/377.000; 435/384.000; 435/392.000; 435/395.000
NCL NCLM: 435/069.520
NCLS: 435/069.100; 435/325.000; 435/368.000; 435/377.000; 435/384.000; 435/392.000; 435/395.000; 435/455.000; 435/456.000; 435/458.000; 435/461.000
IC [6]
ICM: C12N005-00
ICS: C12N005-08; C12N005-10; C12P001-00
EXF 435/240.2; 435/172.3; 435/69.1; 435/69.52; 435/325; 435/368; 435/377; 435/384; 435/392; 435/395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 247 OF 269 USPATFULL on STN
AN 1998:27764 USPATFULL
TI Tumor- or cell-specific herpes simplex virus replication
IN Martuza, Robert L., Chevy Chase, MD, United States
Rabkin, Samuel D., Bethesda, MD, United States
Miyatake, Shin-ichi, Ohtsu, Japan
PA Georgetown University, Washington, DC, United States (U.S. corporation)
PI US 5728379 19980317
AI US 1995-486147 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1994-264581, filed on 23 Jun 1994, now patented, Pat. No. US 5585096
DT Utility
FS Granted
LN.CNT 2532
INCL INCLM: 424/093.200
INCLS: 435/172.300; 435/320.100; 935/022.000; 935/032.000
NCL NCLM: 424/093.200
NCLS: 435/320.100; 435/456.000
IC [6]
ICM: A01N063-00
ICS: A61K048-00; C12N015-00
EXF 514/44; 435/172.3; 435/320.1; 424/93.2; 935/23; 935/32
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 248 OF 269 Elsevier BIOBASE COPYRIGHT 2004 Elsevier Science B.V. on STN
AN 1999010644 ESBIOBASE
TI A constitutively active epidermal growth factor receptor cooperates with disruption of G.sub.1 cell-cycle arrest pathways to induce glioma-like lesions in mice
AU Holland E.C.; Hively W.P.; Depinho R.A.; Varmus H.E.
CS E.C. Holland, Depts. of Neurosurgery/Molec. Gen., MD Anderson Cancer Center, Houston, TX 77030, United States.
E-mail: eholland@notes.mdacc.tmc.edu
SO Genes and Development, (01 DEC 1998), 12/23 (3675-3685), 43 reference(s)
CODEN: GEDEEP ISSN: 0890-9369
DT Journal; Article
CY United States
LA English
SL English

L5 ANSWER 249 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 45
AN 1998:395165 BIOSIS
DN PREV199800395165
TI Establishment of an epidermal growth factor-dependent, multipotent neural precursor cell line.
AU Nakagaito, Yumiko; Satoh, Motonobu; Kuno, Haruhiko; Iwama, Toshi; Takeuchi, Masao; Hakura, Akira; Yoshida, Touho [Reprint author]
CS Inst. Fermentation Osaka, 2-17-85 Juso-honmachi, Yodogawa-ku, Osaka 532, Japan
SO In Vitro Cellular and Developmental Biology Animal, (July-Aug., 1998) Vol. 34, No. 7, pp. 585-592. print.
ISSN: 1071-2690.
DT Article
LA English
ED Entered STN: 10 Sep 1998
Last Updated on STN: 10 Sep 1998

L5 ANSWER 250 OF 269 MEDLINE on STN
AN 1999065740 MEDLINE
DN PubMed ID: 9824552
TI Long-term nonpassaged ***EGF*** -responsive neural precursor cells are stem cells.
AU Zhou F C; Chiang Y H
CS Department of Anatomy and Program of Medical Neurobiology, Indiana University School of Medicine, Indianapolis, Ind, USA.
NC R29 HD 30508 (NICHD)
SO Wound repair and regeneration : official publication of the Wound Healing Society [and] European Tissue Repair Society, (1998 Jul-Aug) 6 (4) 337-48.
Journal code: 9310939. ISSN: 1067-1927.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals

ED Entered STN: 19990128
Last Updated on STN: 20000303
Entered Medline: 19990114

L5 ANSWER 251 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 46
AN 1998:359018 BIOSIS
DN PREV199800359018
TI Incorporation and glial differentiation of mouse ***EGF*** -responsive neural progenitor cells after transplantation into the embryonic rat brain.
AU Winkler, Christian [Reprint author]; Fricker, Rosemary A. [Reprint author]; Gates, Monte A. [Reprint author]; Olsson, Martin [Reprint author]; Hammang, Joseph P.; Carpenter, Melissa K.; Bjorklund, Anders [Reprint author]
CS Dep. Physiol. Neurosci., Wallenberg Neurosci. Cent., Lund Univ., S-22362 Lund, Sweden
SO Molecular and Cellular Neuroscience, (June, 1998) Vol. 11, No. 3, pp. 99-116. print.
CODEN: MOCNED. ISSN: 1044-7431.
DT Article
LA English
ED Entered STN: 27 Aug 1998
Last Updated on STN: 27 Aug 1998

L5 ANSWER 252 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 47
AN 1998:81741 BIOSIS
DN PREV199800081741
TI Cell type-specific development of rodent central nervous system progenitor cells in culture.
AU Meltzer, Hal; Hatton, James D.; U, Hoi Sang [Reprint author]
CS Division Neurosurgery 8893, Univ. California-San Diego School Med., 200 West Arbor Drive, San Diego, CA 92103-8893, USA
SO Journal of Neurosurgery, (Jan., 1998) Vol. 88, No. 1, pp. 93-98. print.
CODEN: JONSAC. ISSN: 0022-3085.
DT Article
LA English
ED Entered STN: 24 Feb 1998
Last Updated on STN: 24 Feb 1998

L5 ANSWER 253 OF 269 USPATFULL on STN
AN 97:112318 USPATFULL
TI Neural chest stem cell assay
IN Anderson, David J., Altadena, CA, United States
Stemple, Derek L., Newton, MA, United States
PA California Institute of Technology, Pasadena, CA, United States (U.S. corporation)
PI US 5693482 19971202
AI US 1995-474506 19950607 (8)
RLI Division of Ser. No. US 1994-188286, filed on 28 Jan 1994 which is a continuation-in-part of Ser. No. US 1992-969088, filed on 29 Oct 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-920617, filed on 27 Jul 1992, now abandoned
DT Utility
FS Granted
LN.CNT 2114
INCL INCLM: 435/029.000
INCLS: 435/240.200
NCL NCLM: 435/029.000
IC [6]
ICM: C12Q001-02
ICS: C12N015-85
EXF 435/29; 435/240.2; 435/172.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 254 OF 269 USPATFULL on STN
AN 97:106979 USPATFULL
TI Transgenic mouse cells expressing ts SV40 large T
IN Jat, Parmjit Singh, London, England
Kioussis, Dimitris, London, England
Noble, Mark David, Berkhamstead, England
PA Ludwig Institute for Cancer Research, New York, NY, United States (U.S. corporation)
PI US 5688692 19971118

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RLI     Continuation of Ser. No. US 1991-657809, filed on 20 Feb 1991, now
        abandoned
PRAI    GB 1990-3791          19900220
DT      Utility
FS      Granted
LN.CNT 1984
INCL    INCLM: 435/354.000
        INCLS: 435/325.000; 435/377.000; 435/069.100; 800/002.000
NCL     NCLM:  435/354.000
        NCLS:  435/069.100; 435/325.000; 435/377.000
IC      [6]
        ICM: C12N005-00
        ICS: C12N015-00; C12P021-06
EXF     800/2; 435/240.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 255 OF 269  USPATFULL on STN
AN      97:88884  USPATFULL
TI      Immoralized neural crest stem cells and methods of making
IN      Anderson, David J., Altadena, CA, United States
        Stemple, Derek L., Newton, MA, United States
PA      California Institute of Technology, Pasadena, CA, United States (U.S.
        corporation)
PI      US 5672499                  19970930
AI      US 1995-478920              19950607 (8)
RLI     Division of Ser. No. US 1994-188286, filed on 28 Jan 1994 which is a
        continuation-in-part of Ser. No. US 1992-969088, filed on 29 Oct 1992,
        now abandoned which is a continuation-in-part of Ser. No. US
        1992-920617, filed on 27 Jul 1992, now abandoned
DT      Utility
FS      Granted
LN.CNT 2112
INCL    INCLM: 435/240.400
        INCLS: 435/069.100; 435/172.300; 435/320.100
NCL     NCLM:  435/353.000
        NCLS:  435/069.100; 435/320.100; 435/325.000; 435/368.000; 435/467.000
IC      [6]
        ICM: C12Q001-02
        ICS: C12N015-85
EXF     435/69.1; 435/172.3; 435/320.1; 435/240.2
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 256 OF 269  USPATFULL on STN
AN      97:68355  USPATFULL
TI      Genetically engineered mammalian neural crest stem cells
IN      Anderson, David J., Altadena, CA, United States
        Stemple, Derek L., Newton, MA, United States
PA      California Institute of Technology, Pasadena, CA, United States (U.S.
        corporation)
PI      US 5654183                  19970805
AI      US 1994-188286              19940128 (8)
RLI     Continuation-in-part of Ser. No. US 1992-996088, filed on 23 Dec 1992,
        now patented, Pat. No. US 5365699 which is a continuation-in-part of
        Ser. No. US 1992-920617, filed on 27 Jul 1992, now abandoned
DT      Utility
FS      Granted
LN.CNT 2162
INCL    INCLM: 435/172.300
        INCLS: 435/069.100; 435/320.100; 435/325.000; 435/353.000; 435/368.000
NCL     NCLM:  435/456.000
        NCLS:  435/069.100; 435/320.100; 435/325.000; 435/353.000; 435/368.000
IC      [6]
        ICM: C12N015-85
        ICS: C12N015-00
EXF     435/69.1; 435/172.3; 435/240.2; 435/320.1; 424/93.21; 514/44
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5    ANSWER 257 OF 269  BIOSIS  COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
      DUPLICATE 48
AN    1997:306495  BIOSIS
DN    PREV199799614298
TI    Basic fibroblast growth factor prolong the proliferation of rat cortical
      progenitor cells in vitro without altering their cell cycle parameters.
AU    Cavanagh, J. F. R. [Reprint author]; Mione, M. C.; Pappas, I. S.;
      Parnavelas, J. G.
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WC1E 6BT, UK
SO Cerebral Cortex, (1997) Vol. 7, No. 4, pp. 293-302.
ISSN: 1047-3211.
DT Article
LA English
ED Entered STN: 26 Jul 1997
Last Updated on STN: 26 Jul 1997

L5 ANSWER 258 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 49
AN 1997:160609 BIOSIS
DN PREV199799459812
TI Co-expression of MAP-2 and ***GFAP*** in cells developing from rat
EGF responsive precursor cells.
AU Rosser, A. E. [Reprint author]; Tyers, P.; Borg, M. Ter; Dunnett, S. B.;
Svendsen, C. N.
CS MRC Cambridge Cent. Brain Repair, Cambridge Univ. Forvie Site, Robinson
Way, Cambridge CB2 2PY, UK
SO Developmental Brain Research, (1997) Vol. 98, No. 2, pp. 291-295.
CODEN: DBRRDB. ISSN: 0165-3806.
DT Article
LA English
ED Entered STN: 15 Apr 1997
Last Updated on STN: 15 Apr 1997

L5 ANSWER 259 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 50
AN 1997:341921 BIOSIS
DN PREV199799641124
TI Neuroepithelial stem cells from the embryonic spinal cord: Isolation,
characterization, and clonal analysis.
AU Kalyani, Anjali; Hobson, Kristin; Rao, Mahendra S. [Reprint author]
CS Dep. Neurobiol. Anat., Univ. Utah Sch. Med., 50 North Medical Dr., Salt
Lake City, UT 84132, USA
SO Developmental Biology, (1997) Vol. 186, No. 2, pp. 202-223.
CODEN: DEBIAO. ISSN: 0012-1606.
DT Article
LA English
ED Entered STN: 11 Aug 1997
Last Updated on STN: 11 Aug 1997

L5 ANSWER 260 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 51
AN 1998:51401 BIOSIS
DN PREV199800051401
TI In vitro cell density-dependent clonal growth of ***EGF*** -responsive
murine neural progenitor cells under serum-free conditions.
AU Hulspas, R. [Reprint author]; Tiarks, C.; Reilly, J.; Hsieh, C.-C.; Recht,
L.; Quesenberry, P. J. [Reprint author]
CS Dep. Cell Biol., Univ. Massachusetts Med. Center and Cancer Center,
Worcester, MA 01605, USA
SO Experimental Neurology, (Nov., 1997) Vol. 148, No. 1, pp. 147-156. print.
CODEN: EXNEAC. ISSN: 0014-4886.
DT Article
LA English
ED Entered STN: 27 Jan 1998
Last Updated on STN: 27 Jan 1998

L5 ANSWER 261 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 52
AN 1997:214868 BIOSIS
DN PREV199799521372
TI Isolation, cloning and characterization of a putative type-1 astrocyte
cell line.
AU Seidman, Kimberly J. N.; Teng, Andelle L.; Rosenkopf, Robin; Spilotro,
Paul; Weyhenmeyer, James A. [Reprint author]
CS Dep. Cell Structural Biol., Univ. Illinois, 190 Medical Sci. Build.,
MC-714, 506 South Matthews Ave., Urbana, IL 61801, USA
SO Brain Research, (1997) Vol. 753, No. 1, pp. 18-26.
CODEN: BRREAP. ISSN: 0006-8993.
DT Article
LA English
ED Entered STN: 22 May 1997
Last Updated on STN: 22 May 1997

DUPLICATE 53
AN 1996:231067 BIOSIS
DN PREV199698795196
TI Morphological differentiation of astroglial progenitor cells from ***EGF*** -responsive neurospheres in response to fetal calf serum, basic fibroblast growth factor, and retinol.
AU Chiang, Yung H.; Silani, Vincenzo; Zhou, Feng C. [Reprint author]
CS Dep. Anatomy, MS 508, Indiana Univ. Sch. Med., 635 Barnhill Dr., Indianapolis, IN 46202, USA
SO Cell Transplantation, (1996) Vol. 5, No. 2, pp. 179-189.
ISSN: 0963-6897.
DT Article
LA English
ED Entered STN: 28 May 1996
Last Updated on STN: 28 May 1996

L5 ANSWER 263 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 54
AN 1996:473574 BIOSIS
DN PREV199699203130
TI Expression of neuronal antigens by astrocytes derived from ***EGF*** -generated neuroprogenitor cells.
AU Schinstine, Malcolm; Iacovitti, Lorraine
CS Dep. Neurobiol. and Anat., Med. Coll. Pa. Hahnemann Univ., Broad and Vine St., Philadelphia, PA 19102, USA
SO Experimental Neurology, (1996) Vol. 141, No. 1, pp. 67-78.
CODEN: EXNEAC. ISSN: 0014-4886.
DT Article
LA English
ED Entered STN: 24 Oct 1996
Last Updated on STN: 24 Oct 1996

L5 ANSWER 264 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 55
AN 1995:507236 BIOSIS
DN PREV199598512286
TI Differentiation of serum-free mouse embryo cells into astrocytes is accompanied by induction of glutamine synthetase activity.
AU Loo, D. T. [Reprint author]; Althoen, M. C.; Cotman, C. W.
CS Bristol-Myers Squibb PRI, 3005 First Ave., Seattle, WA 98121, USA
SO Journal of Neuroscience Research, (1995) Vol. 42, No. 2, pp. 184-191.
CODEN: JNREDK. ISSN: 0360-4012.
DT Article
LA English
ED Entered STN: 29 Nov 1995
Last Updated on STN: 29 Nov 1995

L5 ANSWER 265 OF 269 CANCERLIT on STN DUPLICATE 56
AN 96122596 CANCERLIT
DN 96122596 PubMed ID: 8568917
TI Epidermal growth factor (***EGF***), transforming growth factor-alpha (***TGF*** -alpha), and basic fibroblast growth factor (bFGF) differentially influence neural precursor cells of mouse embryonic mesencephalon.
CM Erratum in: J Neurosci Res 1995 Dec 15;42(6):855
AU Santa-Olalla J; Covarrubias L
CS Departamento de Biologia Molecular, Universidad Nacional Autonoma de Mexico, Cuernavaca, Morelos, Mexico.
SO JOURNAL OF NEUROSCIENCE RESEARCH, (1995 Oct 1) 42 (2) 172-83.
Journal code: 7600111. ISSN: 0360-4012.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS MEDLINE; Priority Journals
OS MEDLINE 96122596
EM 199603
ED Entered STN: 19960424
Last Updated on STN: 19960424

L5 ANSWER 266 OF 269 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 57
AN 1994:487348 BIOSIS
DN PREV199497500348
TI Down regulation of ***nestin*** by ***TGF*** -beta or serum in SFME cells accompanies differentiation into astrocytes.

CS Irvine Res. Unit Brain Aging, Univ. Calif., Irvine, CA 92717, USA
SO Neuroreport, (1994) Vol. 5, No. 13, pp. 1585-1588.
CODEN: NERPEZ. ISSN: 0959-4965.
DT Article
LA English
ED Entered STN: 9 Nov 1994
Last Updated on STN: 9 Nov 1994

L5 ANSWER 267 OF 269 FEDRIP COPYRIGHT 2004 NTIS on STN
AN 2004:69625 FEDRIP
NR VA 80987
NC 0008, 664
TI Differentiation of Neural Progenitor Cells to a Dopaminergic Phenotype
SF Principal Investigator: Shults, Clifford W., M.D.
CSP Department of Veterans Affairs, Medical Center, San Diego, CA
CSS Supported By: Department of Veterans Affairs. Research and Development (15), 810 Vermont Ave. N.W., Washington, D.C., 20420, United States of America
DB Mar 1, 1991
FS Department of Veterans Affairs

L5 ANSWER 268 OF 269 FEDRIP COPYRIGHT 2004 NTIS on STN
AN 2004:69025 FEDRIP
NR VA 111389
NC 0007, 664
TI The Development of Human Central Nervous System Stem Cells
SF Principal Investigator: U, Hoi Sang, M.D.
CSP Department of Veterans Affairs, Medical Center, San Diego, CA
CSS Supported By: Department of Veterans Affairs. Research and Development (15), 810 Vermont Ave. N.W., Washington, D.C., 20420, United States of America
DB Jan 3, 1996
FS Department of Veterans Affairs

L5 ANSWER 269 OF 269 TOXCENTER COPYRIGHT 2004 ACS on STN
AN 2002:579708 TOXCENTER
DN DART-TER-1000639
TI Effect of cytomegalovirus infection on the growth and differentiation of cultured mouse neural stem cells.
AU Kosugi I; Kawasaki H; Li R Y; Arai Y; Baba S; Tsutsui Y
CS 2nd Department of Pathology, Hamamatsu University, Hamamatsu, Shizuoka, Japan.
SO Teratology 2001 Apr;63(4):21A-22A. Teratology,
ISSN: 0040-3709.
DT Abstract; (MEETING ABSTRACT)
FS DART
LA English
ED Entered STN: 20021200
Last Updated on STN: 20021200
STN INTERNATIONAL LOGOFF AT 09:12:24 ON 05 MAR 2004